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OCTOBER 1983 NUMBER 470 -- Part II

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Solar-Geophysical Data comprehensive reports

Data for April 1983, December 1980, January 1981 & Miscellanea
Explanation of Data Reports Issued as Number 462 (Supplement) February 1983

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LATE SOLAR FLARE DATA DECEMBER 1980 and JANUARY 1981 Pages 35-105

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Solar - Geophysical Data

Part II (Comprehensive Reports)

NO. 470 OCTOBER 1983

DATA FOR
APRIL 1983
DECEMBER 1980
JANUARY 1981

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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NUMBER 470

(Issued in Two Parts)

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*Solar radio noise bursts observed at Athens, Learmonth, Manila, Palehua and Sagamore Hill during Aug 1979 through Oct 1980 appear in SOLAR-GEOPHYSICAL DATA, No. 461, Part II, pages 103-235.

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OUTSTANDING OCCURRENCES

APRIL 1983

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
01	245	LEAR	43	NS	0655.0	0922.8	193.0D	11.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0759.0E		93.0D				
	410	LEAR	47	GB	0157.8	0158.5	1.0	430.0			QL=6 ST=2 TYP=5
	1415	LEAR	8	S	0157.8	0158.8	1.3	7.0			QL=5 ST=3 TYP=3
	500	HIRA	8	S	0158.2	0158.2	.7	800.0			WR
	245	LEAR	47	GB	0158.3	0158.3	.5	76.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0158.3	0158.5	.3	77.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0158.3	0158.5	.5	219.0			QL=6 ST=2 TYP=5
	2695	LEAR	8	S	0158.3	0158.6	.7	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0158.4	0158.6	1.0	3.0	1.0		
	1000	TYKW	5	S	0158.4	0158.6	2.0	4.5	1.5		
	2000	TYKW	5	S	0158.4	0158.7	1.5	7.0	2.0		
	610	PALE	8	S	0158.5	0158.6	.3	38.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0158.5	0158.6	.3	37.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0207.3	0207.3	.2	1.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0207.3	0207.3	.2	2.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0207.3	0207.3	.2	38.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0253.6	0253.8	1.7	37.0			QL=6 ST=2 TYP=3
	8800	PALE	8	S	0254.8	0255.1	.3	23.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0649.8	0649.8	.2	20.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0658.5	0658.6	.2	110.0	2.0		
	610	LEAR	8	S	0701.5	0701.6	.3	8.0			QL=6 ST=2 TYP=3
	200	HIRA	8	S	0701.5	0701.6	.3	150.0			0
	245	LEAR	47	GB	0701.5	0701.6	.3	90.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0701.6	0701.6	.2	3.0			QL=6 ST=2 TYP=3
	204	IZMI	4	S/F	0809.0	0809.2	2.0	100.0	50.0		
	200	HIRA	46	C	0809.0	0809.3	1.7	170.0	56.0		MR
	245	LEAR	8	S	0923.6	0923.8	.5	36.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0923.6	0923.8	.4	20.0			QL=6 ST=2 TYP=3
	810	KRAK	8	S	0924.0	0924.0	.2	9.0			
	113	POTS	4	S/F	0927.4	0927.5	.3	600.0	400.0		III
	204	IZMI	5	S	0930.0	0930.2	.8	82.0	40.0		
	810	KRAK	8	S	1048.5	1048.5	.1	9.0			
	810	KRAK	8	S	1149.2	1149.2	.1	3.0			
	430	KRAK	8	S	1149.2	1149.3	.2	7.0			
	2800	OTTA	8	S	1808.0	1808.3	.5	2.0	1.0		
	245	SGMR	49	GB	1808.1	1808.3	.5	590.0			QL=2 ST=2 TYP=6
	245	PALE	49	GB	1808.1	1808.3	.5	670.0			QL=6 ST=2 TYP=6
	245	SGMR	4	S/F	2110.6	2111.0	9.0	189.0			QL=6 ST=2 TYP=3
	2695	PENT	21	GRF	2220.0	2300.0	115.0	1.6	.8		
	3750	TYKW	20	GRF	2220.0	2300.0	120.0	2.0	1.0		
	245	LEAR	8	S	2250.8	2251.0	1.0	27.0			QL=6 ST=2 TYP=3
	2695	PENT	1	S	2250.9	2251.3	1.2	1.0	.5		
	410	LEAR	8	S	2306.1	2306.3	.5	31.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	2306.1	2306.3	.5	62.0			QL=6 ST=2 TYP=5
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	245	LEAR	8	S	2338.5	2338.6	.1	33.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	2338.5	2338.6	.1	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2358.3	2358.3	.2	40.0			QL=1 ST=2 TYP=3
02	245	LEAR	8	S	0000.1	0000.1	.2	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0103.0	0104.0	5.0	1.5	0.5		
	245	LEAR	8	S	0103.8	0104.0	.7	46.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0103.8	0104.0	.3	3.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0628.5	0629.0	.6	4.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0628.5	0629.0	1.0	11.0			QL=6 ST=2 TYP=3
	204	IZMI	4	S/F	0717.0	0717.3	.8	60.0	30.0		
	245	LEAR	8	S	0717.1E	0717.5	.5D	44.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0930.8	0930.8	.2	11.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	1026.3	1026.5	.3	5.0			
	930	BORD	41	F	1626.2	1626.3	.3	22.0	2.0		
	9400	HUAN	20	GRF	1718.2	1730.4	40.3	5.3	2.5		0
	2800	OTTA	1	S	1942.0	1942.8	2.0	1.6	.8		
	1000	TYKW	5	S	2320.7	2320.8	0.6	13.0	4.0		
	245	LEAR	8	S	2322.8	2323.0	.3	13.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	2358.3	2358.3	.2	40.0			QL=1 ST=2 TYP=3
03	245	LEAR	8	S	0034.3	0034.5	.3	11.0			QL=1 ST=2 TYP=3
	245	LEAR	8	S	0157.6	0157.6	.2	10.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0249.0	0250.4	3.0	3.0	1.0		
	245	LEAR	8	S	0339.8	0340.3	.8	10.0			QL=6 ST=2 TYP=3

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

APRIL 1983

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
03	610	LEAR	8	S	0340.1	0340.3	.4	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0408.8	0408.8	.2	13.0			QL=6 ST=2 TYP=3
	650	GORK	1	S	0452.5	0454.0	3.7	1.5			
	8800	LEAR	8	S	0453.8	0454.5	1.8	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0454.0	0454.6	7.0	2.0	0.5		
	9400	TYKW	5	S	0454.0	0454.6	5.0	5.0	1.5		
	2000	TYKW	5	S	0454.0	0454.7	1.5	1.5	0.5		
	4995	LEAR	8	S	0454.1	0454.5	.7	3.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0454.3	0454.6	0.7	2.0	0.5		
	2950	GORK	1	S	0454.4	0454.6	.5	1.5	.7		
	1000	TYKW	5	S	0523.7	0523.9	0.6	63.0	12.0		
	245	LEAR	8	S	0615.3	0615.3	.2	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0626.0	0626.0	.1	23.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0626.0	0626.1	.1	32.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0826.5	0826.6	.1	25.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0826.5	0826.6	.1	6.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	0907.1		.5	20.0			
	245	LEAR	47	GB	0907.1	0907.3	.5	180.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0907.1	0907.8	1.0	27.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0907.2	0907.4	.3	140.0	25.0		
	410	LEAR	47	GB	0907.3	0907.8	.7	95.0			QL=6 ST=2 TYP=5
	536	ONDR	8	S	0908.0	0908.0	.1				
	810	KRAK	8	S	0909.5	0909.6	.4	18.0			
	6100	KISV	1	S	0932.6	0932.9	.5	4.0			
	430	KRAK	42	SER	1145.0	1145.0	.3	31.0			
	810	KRAK	8	S	1145.1	1145.1	.3	13.0			
	8800	ATHN	47	GB	1204.3	1204.6	2.2	110.0			QL=6 ST=2 TYP=5
	2695	ATHN	8	S	1204.3	1204.6	1.7	27.0			QL=6 ST=2 TYP=3
	4995	ATHN	47	GB	1204.3	1204.6	2.2	52.0			QL=6 ST=2 TYP=5
	1415	ATHN	8	S	1204.8	1205.0	1.0	8.0			QL=6 ST=2 TYP=3
	810	KRAK	8	S	1232.2	1232.2	.1	6.0			
	9400	HUAN	4	S/F	1302.9	1304.8	3.8	50.7	21.6		1
	4995	ATHN	47	GB	1303.6	1304.3	1.9	52.0			QL=6 ST=3 TYP=5
	2695	ATHN	8	S	1303.6	1304.3	1.4	27.0			QL=6 ST=3 TYP=3
	8800	ATHN	47	GB	1303.6	1304.3	1.9	110.0			QL=6 ST=3 TYP=5
	1415	ATHN	8	S	1303.8	1304.6	1.2	8.0			QL=6 ST=3 TYP=3
	9500	POTS	4	S/F	1304.0	1304.6	2.5	45.0			
	1470	POTS	3	S	1304.0	1304.9	2.5	19.0			
	610	SGMR	47	GB	1304.1	1304.1	1.5	239.0			QL=6 ST=2 TYP=5
	8800	SGMR	47	GB	1304.1	1304.6	1.5	64.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	1304.1	1304.6	1.2	10000.0			QL=2 ST=3 TYP=6
	15400	SGMR	4	S/F	1304.1	1305.0	2.2	29.0			QL=6 ST=3 TYP=3
	234	POTS	4	S/F	1304.2	1304.7	1.2	55000.0	5500.0		III/V
	3000	POTS	4	S/F	1304.2	1304.7	2.8	31.0			
	930	BORD	46	C	1304.2	1305.1	2.0	53.0	3.0		
	4995	ATHN	47	GB	1304.3	1304.6	2.2	52.0			QL=6 ST=3 TYP=5
	4995	SGMR	47	GB	1304.3	1304.6	1.3	61.0			QL=6 ST=2 TYP=5
	8800	ATHN	47	GB	1304.3	1304.6	2.2	110.0			QL=6 ST=3 TYP=5
	2695	ATHN	8	S	1304.3	1304.6	1.7	27.0			QL=6 ST=3 TYP=3
	410	SGMR	47	GB	1304.3	1304.6	1.0	100.0			QL=6 ST=2 TYP=5
	1415	SGMR	8	S	1304.3	1304.8	1.0	26.0			QL=6 ST=2 TYP=3
	2695	SGMR	8	S	1304.5	1304.6	.6	26.0			QL=6 ST=2 TYP=3
	29	UPIC	8	S	1304.5	1305.0	1.1				
	1415	ATHN	8	S	1304.8	1305.0	1.0	8.0			QL=6 ST=3 TYP=3
	9400	HUAN	29	PBI	1306.7	1306.7	10.1	4.1	1.9		0
	2800	OTTA	21	GRF	1650.0	1710.0	120.0	8.4	4.0		
	2800	OTTA	8	S	1658.9	1658.9	.1	1.8			
	9400	HUAN	20	GRF	1701.2	1731.6	45.6	9.6	2.2		0
	930	BORD	41	F	1711.0	1711.6	.7	12.0	2.0		
	245	LEAR	47	GB	2252.6	2252.8	.2	90.0			QL=6 ST=2 TYP=5
04	245	LEAR	8	S	0109.0	0109.1	.1	18.0			QL=6 ST=2 TYP=3
	8800	LEAR	20	GRF	0234.0	0245.3	41.0	11.0			QL=6 ST=2 TYP=2
	4995	LEAR	20	GRF	0237.0	0245.3	38.0	7.0			QL=6 ST=2 TYP=2
	245	LEAR	8	S	0308.1	0308.8	2.0	24.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0554.0	0554.1	.1	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0616.3	0616.5	.3	10.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0817.8	0818.1	.3	11.0			QL=6 ST=2 TYP=3
	260	ONDR	41	F	0824.0E		63.0D	24.0			
	245	LEAR	8	S	0915.6	0915.8	.2	25.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0925.1	0925.5	.5	13.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean	Int	Remarks
04	245	LEAR	8	S	0959.0	0959.1	.1	46.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	1028.2	1028.8	1.5	11.0	5.5		
	650	GORK	4	S/F	1033.9	1034.4	2.3	52.0			
	930	BORD	46	C	1034.0	1035.0	2.0	88.0	4.0		
	100	GORK	4	S/F	1034.0	1034.5	1.0	270.0D			
	204	IZMI	7	C	1034.0	1034.5	2.0	1100.0	400.0		
	810	KRAK	2	S/F	1034.0	1034.5	1.5	12.0	4.0		
	808	ONDR	2	S/F	1034.0	1035.0	2.5	17.0	8.0		
	536	ONDR	46	C	1034.0	1036.0	3.0	27.0			
	9100	GORK	2	S/F	1034.1	1034.5	2.4	13.0			
	950	GORK	2	S/F	1034.2	1034.9	1.7	7.0			
	9500	POTS	1	S	1034.2	1035.0	1.8	7.0			
	430	KRAK	2	S/F	1034.3	1034.5	1.2	24.0	3.0		
	3000	POTS	3	S	1034.3	1034.9	1.2	10.0			
	4995	SGMR	4	S/F	1226.1	1326.6	62.2	16.0			QL=6 ST=2 TYP=3
	1470	POTS	1	S	1250.5	1251.6	2.5	2.0			
	430	KRAK	8	S	1251.0	1251.3	.5	14.0			
	810	KRAK	8	S	1251.5	1251.5	.1	10.0			
	3100	BERN	3	S	1304.0	1304.8	2.0	59.0			
	5200	BERN	3	S	1304.0	1304.8	2.0	113.0			
	8400	BERN	4	S/F	1304.0	1304.8	2.0	88.0			
	19600	BERN	4	S/F	1304.0	1305.0	2.0D	35.0			
	11800	BERN	4	S/F	1304.0	1305.1	2.0	51.0			
	2800	OTTA	3	S	1326.2	1326.7	2.0	17.4	5.0		
	1415	SGMR	8	S	1326.3	1326.8	1.0	5.0			QL=6 ST=2 TYP=3
	410	SGMR	8	S	1326.5	1326.6	.5	30.0			QL=2 ST=2 TYP=3
	245	SGMR	47	GB	1326.5	1326.8	2.6	180.0			QL=2 ST=2 TYP=5
	2695	SGMR	8	S	1326.6	1326.6	.4	20.0			QL=6 ST=2 TYP=3
	29	UPIC	8	S	1326.6	1326.9	.7				
	1470	POTS	2	S/F	1327.3	1327.7	2.4	6.0			
	930	BORD	41	F	1327.4	1328.3	1.0	31.0	3.0		
	3000	POTS	3	S	1327.5	1327.8	2.0	17.0			
	234	POTS	8	S	1327.6	1327.7	.2	200.0	70.0		III
	2800	OTTA	4	S/F	1642.0	1643.2	5.0	130.0	17.4		
	2695	ATHN	8	S	1642.3	1643.1	1.3	32.0			QL=1 ST=2 TYP=3
	930	BORD	46	C	1642.4	1643.4	4.0	143.0	6.0		
	245	SGMR	47	GB	1642.5	1642.6	1.6	730.0			QL=6 ST=2 TYP=5
	4995	SGMR	47	GB	1642.6	1643.3	1.5	119.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1642.6	1643.3	1.4	139.0			QL=6 ST=2 TYP=5
	1415	SGMR	47	GB	1642.6	1643.3	2.2	83.0			QL=6 ST=2 TYP=5
	2695	SGMR	47	GB	1642.6	1643.3	1.5	110.0			QL=6 ST=2 TYP=5
	8800	ATHN	47	GB	1643.0	1643.1	1.0	60.0			QL=1 ST=3 TYP=5
	4995	ATHN	8	S	1643.1	1643.1	.4	48.0			QL=1 ST=3 TYP=3
	8800	SGMR	47	GB	1643.1	1643.3	.7	91.0			QL=6 ST=2 TYP=5
	1415	ATHN	8	S	1643.1	1643.6	.9	38.0			QL=1 ST=3 TYP=3
	610	SGMR	8	S	1643.3	1643.3	1.2	40.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1653.8	1654.1	4.3	53.0			QL=6 ST=2 TYP=5
	9400	HUAN	20	GRF	1751.3	1803.2	47.5	4.1	1.8		0
	245	PALE	8	S	1819.6	1820.0	.5	18.0			QL=6 ST=2 TYP=3
	2800	OTTA	21	GRF	2000.0	2030.0	70.0	1.8	.9		
	2695	PENT	1	S	2002.5	2003.0	1.5	3.6	1.8		
	245	SGMR	47	GB	2002.6	2003.0	1.4	90.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	2002.8	2002.8	.3	110.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	2247.6	2247.8	.2	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	2247.6	2247.8	.2	22.0			QL=6 ST=2 TYP=3
05	3750	TYKW	21	GRF	0030.0	0100.0	100.0	1.5	0.7		
	3750	TYKW	45	C	0035.0	0036.7	10.0	2.0	0.5		
	9400	TYKW	5	S	0035.0	0037.0	15.0	3.0	1.5		
	245	PALE	47	GB	0151.6	0152.1	1.0	73.0			QL=5 ST=2 TYP=5
	245	LEAR	8	S	0216.8	0217.0	.3	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	21	GRF	0340.0	0405.0	120.0	2.0	1.0		
	9400	TYKW	21	GRF	0350.0	0415.0	130.0	3.0	1.5		
	3750	TYKW	21	GRF	0355.0	0410.0	95.0	2.0	1.0		
	9395	PEKG	3	S	0426.0	0426.8	2.0	20.3	13.3		
	2000	TYKW	45	C	0426.0	0426.8	2.0	6.0	3.0		
	2840	PEKG	3	S	0426.0	0427.0	1.0	21.1	10.0		
	3653	YUNN	5	S	0426.0	0427.4	2.5	46.0			
	8800	ATHN	8	S	0426.1	0426.6	1.4	33.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0426.3	0426.5	1.5	3.0	0.7		
	2950	GORK	1	S	0426.4	0426.8	1.0	20.0	10.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
05	9400	TYKW	5	S	0426.5	0426.7	1.5	22.0	10.0		
	3750	TYKW	5	S	0426.5	0426.7	1.5	30.0	10.0		
	200	HIRA	45	C	0426.5	0426.8	.7	2000.0	540.0		0
	9100	GORK	3	S	0426.5	0426.8	1.4	25.0	12.0		
	100	GORK	8	S	0426.5	0427.1	1.1	580.0			
	2695	ATHN	8	S	0426.6	0426.8	.7	16.0			QL=6 ST=2 TYP=3
	100	HIRA	45	C	0426.7	0426.8	.8	5600.0	657.0		
	500	HIRA	8	S	0426.7	0426.8	.7	27.0			0
	2000	TYKW	29	PBI	0428.0		50.0	1.5	0.7		
	9400	TYKW	29	PBI	0428.0		35.0	3.0	1.5		
	3750	TYKW	29	PBI	0428.0		50.0	2.0	1.0		
	200	HIRA	8	S	0446.6	0446.7	.3	440.0			0
	113	POTS	41	F	0627.3	0636.6	13.0	380.0	20.0		III
	245	LEAR	8	S	0639.8	0639.8	.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0702.0	0702.1	.1	10.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0751.2	0751.3	.3	20.0			
	810	KRAK	8	S	0751.3	0751.3	.4	5.0			
	810	KRAK	8	S	0858.0	0858.1	.3	4.0			
	430	KRAK	8	S	0858.0	0858.1	.2	13.0			
	245	LEAR	8	S	0914.0	0914.1	.1	15.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0933.6	0933.6	.2	53.0			QL=6 ST=2 TYP=5
	810	KRAK	8	S	0942.1	0942.3	.3	2.0			
	430	KRAK	8	S	0942.3	0942.4	.2	13.0			
	245	LEAR	47	GB	0956.6	0956.6	.2	64.0			QL=6 ST=2 TYP=5
	810	KRAK	8	S	1102.3	1102.3	.1	4.0			
	430	KRAK	8	S	1102.5	1102.8	.7	40.0	2.0		
	2800	OTTA	21	GRF	1725.0	1750.0	65.0	3.2	1.8		
	2800	OTTA	1	S	1727.5	1728.7	3.0	3.8	1.8		
	3750	TYKW	45	C	2335.0	2340.3	8.0	9.0	3.0		
	100	HIRA	46	C	2337.8	2339.8	3.7	150.0	38.0		
	208	VORO	4	S/F	2338.0	2338.0	3.0	20.0			
	2695	PENT	2	S/F	2338.0	2340.5	7.0	3.6	1.6		
	9400	TYKW	45	C	2338.0	2341.0	9.0	5.0	2.0		
	610	LEAR	4	S/F	2338.3	2338.6	2.2	11.0			QL=6 ST=2 TYP=3
	245	LEAR	4	S/F	2338.5	2338.8	2.3	11.0			QL=1 ST=2 TYP=3
	410	LEAR	4	S/F	2338.5	2340.8	2.3	16.0			QL=6 ST=2 TYP=3
	200	HIRA	46	C	2338.6	2339.6	2.7	42.0	8.0		0
	4995	LEAR	4	S/F	2338.6	2340.3	3.2	10.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	2338.8	2340.5	5.0	10.0			QL=6 ST=3 TYP=3
	2000	TYKW	5	S	2339.0	2341.0	7.0	2.0	1.0		
	2695	LEAR	8	S	2339.8	2340.8	1.3	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	2343.0		65.0	2.0	1.0		
06	127	TORN	43	NS	0916.0		24.0D				V=0
	200	HIRA	8	S	0242.7	0242.8	.4	56.0			0
	3750	TYKW	20	GRF	0450.0	0505.0	90.0	2.0	1.0		
	2000	TYKW	20	GRF	0450.0	0505.0	90.0	1.5	0.7		
	245	LEAR	8	S	0650.0	0650.1	.1	6.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0650.0	0650.1	.1	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0711.8	0712.0	.3	18.0			QL=6 ST=3 TYP=3
	410	LEAR	8	S	0711.8	0712.0	.3	2.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0803.8	0803.8	.2	11.0			QL=1 ST=2 TYP=3
	930	BORD	41	F	1610.8	1610.9	.3	13.0	2.0		
07	410	LEAR	8	S	0045.6	0045.8	1.0	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	28	PRE	0144.0	0146.0	6.0	1.5	0.7		
	3750	TYKW	20	GRF	0145.0	0156.0	85.0	6.0	3.0		
	9400	TYKW	20	GRF	0148.0	0158.0	60.0	5.0	2.0		
	2000	TYKW	5	S	0150.0	0152.0	10.0	4.0	3.0		
	1000	TYKW	45	C	0152.0	0156.3	6.0	17.0	3.0		
	610	LEAR	4	S/F	0152.8	0156.1	4.8	22.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0154.5	0155.8	2.3	19.0			QL=6 ST=2 TYP=3
	500	HIRA	45	C	0154.8	0156.0	2.0	23.0	13.0		ML
	1415	LEAR	4	S/F	0155.0	0156.3	2.5	8.0			QL=5 ST=3 TYP=3
	410	PALE	8	S	0155.6	0155.8	.4	16.0			QL=6 ST=2 TYP=3
	610	PALE	8	S	0155.6	0156.1	.7	23.0			QL=6 ST=2 TYP=3
	1000	TYKW	29	PBI	0158.0		15.0	1.5	0.7D		
	2000	TYKW	29	PBI	0200.0		70.0	2.0	1.0		
	3750	TYKW	20	GRF	0510.0	0540.0	120.0	2.0	1.0		
	2000	TYKW	20	GRF	0515.0	0540.0	100.0	1.5	0.7		
	536	ONDR	1	S	0814.5	0815.5	1.0	10.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
07	930	BORD	41	F	0958.8	0958.8	.2	11.0	2.0		
	127	TORN	27	RF	1026.0		24.7		20.0		
	260	ONDR	8	S	1052.5	1052.5	.5	5.0			
	260	ONDR	8	S	1053.2	1053.2	.7	71.0			
	536	ONDR	4	S/F	1058.2	1058.7	.7	32.0	30.0		
	930	BORD	8	S	1331.4	1331.4	.2	24.0	2.0		
	930	BORD	41	F	1639.5	1639.6	.2	34.0	2.0		
08	245	LEAR	43	NS	0223.0	0656.8	458.0D	21.0			QL=6 ST=2 TYP=1
	260	ONDR	43	NS	0639.0	0639.0	240.0D	14.0			
	430	KRAK	1	S	0729.5	0729.7	.5	5.0	2.0		
	245	LEAR	8	S	0756.1	0756.3	.2	10.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0756.1	0756.3	.2	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0819.3	0819.5	.3	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0819.3	0819.5	.3	11.0			QL=6 ST=2 TYP=3
	930	BORD	8	S	1203.2	1203.2	.1	12.0	2.0		
	430	KRAK	8	S	1221.2	1221.3	.2	10.0			
	260	ONDR	8	S	1224.0	1224.5	1.0	10.0			
	2800	OTTA	27	RF	1530.0		205.0	2.0	1.7		
	2800	OTTA	24	R	1530.0	1555.0	25.0	2.0	1.5		
	2800	OTTA	24P	R	1555.0		145.0	2.0			
	2800	OTTA	26	FAL	1820.0	1855.0	35.0	-2.0	-1.5		
	3750	TYKW	20	GRF	2330.0	2347.0	110.0	2.0	1.0		
09	245	LEAR	43	NS	2306.0	2314.1	211.3	25.0			QL=6 ST=2 TYP=1
	3750	TYKW	21	GRF	0340.0	0400.0	150.0	2.0	1.0		
	1000	TYKW	45	C	0455.0	0456.0	6.0	7.0	3.0		
	2000	TYKW	45	C	0455.0	0457.7	6.0	9.0	3.0		
	3750	TYKW	45	C	0455.0	0500.1	6.0	13.0	2.5		
	9400	TYKW	5	S	0455.0	0502.0	20.0	4.0	1.5		
	610	LEAR	4	S/F	0455.0	0455.6	5.8	5.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0455.0	0456.1	5.8	9.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0455.0	0457.6	5.3	139.0			QL=6 ST=2 TYP=5
	2695	LEAR	4	S/F	0455.1	0456.1	6.0	8.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0455.1	0458.3	4.2	6.0			QL=6 ST=2 TYP=3
	950	GORK	2	S/F	0455.2	0456.8	5.7	6.0			
	650	GORK	2	S/F	0455.3	0455.7	5.2	3.0			
	500	HIRA	42	SER	0455.5	0455.7	2.0	3.0			WL
	2950	GORK	2	S/F	0455.7	0500.1	6.3	7.6			
	9100	GORK	20	GRF	0457.0	0500.4	25.4	9.0			
	200	HIRA	42	SER	0457.3	0457.6	6.0	120.0			0
	200	HIRA			0457.3	0500.6		40.0			0
	100	GORK	41	F	0457.6	0458.1	7.0	145.0			
	100	GORK			0457.6	0500.2		150.0			
	100	GORK			0457.6	0501.8U		160.0D			
	3750	TYKW	29	PBI	0501.0		15.0	2.0	1.0		
	2000	TYKW	29	PBI	0501.0		25.0	1.5	0.7		
	3750	TYKW	5	S	0530.0	0531.3	15.0	2.0	0.5		
	3653	YUNN	1	S	0536.0	0537.2	3.0	10.0			
	2902	YUNN	1	S	0536.0	0537.4	3.0	8.0			
	3750	TYKW	5	S	0622.5	0624.0	5.0	2.5	1.0		
	2950	GORK	1	S	0623.2	0624.0	2.6	3.0	1.5		
	9400	TYKW	45	C	0640.0	0640.5	2.0	6.0	2.0		
	245	LEAR	8	S	0729.0	0729.1	.1	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0729.0	0729.1	.1	4.0			QL=6 ST=2 TYP=3
	810	KRAK	8	S	1102.7	1102.7	.1	7.0			
	430	KRAK	8	S	1102.7	1103.0	.3U	56.0			
	2800	OTTA	22	GRF	1508.0	1512.0	17.0	2.0	1.0		
	2800	OTTA	1	S	1743.0	1745.0	9.0	1.6	.8		
	245	SGMR	8	S	2157.8	2158.6	1.3	130.0			QL=6 ST=2 TYP=3
	2695	PENT	20	GRF	2215.0	2250.0	115.0	1.8	1.0		
10	29	UPIC	43	NS	0949.4		321.2				
	33	UPIC	43	NS	0949.8		321.0				
	245	LEAR	8	S	0259.0	0259.1	.3	4.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0259.1	0259.1	.2	3.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0631.5	0631.6	1.0	4.0			QL=6 ST=2 TYP=3
	260	ONDR	41	F	0951.0	0953.0	8.0	25.0			
	113	POTS	4	S/F	0951.7	0953.4	62.7	400.0	1.0		III
	204	IZMI	41	F	0952.0	0953.7	6.0	145.0			
	430	KRAK	1	S	0953.0	0953.0	.5	8.0	4.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
10	2800	OTTA	20	GRF	1510.0	1520.0	20.0	1.6	.8		
	2695	PENT	1	S	2005.0	2010.0	10.0	1.2	.6		
	3750	TYKW	21	GRF	2217.0	2230.0	70.0	2.0	1.0		
	1000	TYKW	5	S	2219.0	2219.2	1.0	5.0	1.5		
	2800	OTTA	21	GRF	2220.0	2230.0	80.0	2.0	1.0		
	3750	TYKW	5	S	2222.0	2222.6	3.0	2.0	0.7		
	2000	TYKW	5	S	2222.0	2222.7	1.5	1.5	0.5		
	2800	OTTA	1	S	2222.0	2222.8	4.0	3.8	1.6		
11	536	ONDR	42	SER	0717.0		13.0	5.0			
	245	LEAR	8	S	0731.6	0731.6	.2	11.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0731.6	0731.6	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0820.8	0820.8	.2	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0820.8	0820.8	.2	17.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0844.8	0845.0	.3	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0844.8	0845.0	.3	43.0			QL=6 ST=2 TYP=3
	245	SGMR	49	GB	1605.3	1605.5	.5	740.0			QL=2 ST=3 TYP=6
	930	BORD	41	F	1621.6	1621.8	.4	89.0	4.0		
	2800	OTTA	20	GRF	1850.0	1900.0	50.0	2.0	1.0		
	245	SGMR	8	S	1950.8	1950.8	.5	41.0			QL=2 ST=2 TYP=3
	245	PALE	8	S	1950.8	1951.0	.5	39.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	2340.0	2342.5	8.0	4.0	1.5		
	3750	TYKW	29	PBI	2348.0		10.0	1.5	0.7		
	9400	TYKW	20	GRF	2348.0	2356.0	80.0	4.0	2.0		
12	245	LEAR	8	S	0549.3	0549.5	.3	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0634.3	0634.3	.2	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0634.3	0634.3	.2	4.0			QL=6 ST=2 TYP=3
	260	ONDR	46	C	0945.0	0947.7	9.0	32.0			
	1470	POTS	2	S/F	1001.4	1002.0	1.1	3.0			
	536	ONDR	8	S	1242.0	1242.0	1.0	26.0			
	2800	OTTA	22	GRF	1402.0	1405.0	40.0	2.4	1.2		
	8800	SGMR	47	GB	1408.5	1408.8	1.1	239.0			QL=6 ST=2 TYP=5
	245	LEAR	8	S	2256.1	2256.1	.2	13.0			QL=6 ST=2 TYP=3
13	3750	TYKW	21	GRF	0400.0	0413.0	70.0	1.5	0.7		
	3750	TYKW	5	S	0434.5	0434.9	1.5	1.5	0.5		
	410	LEAR	8	S	0607.6	0607.8	.2	8.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0607.6	0607.8	.2	1.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0722.5	0722.6	.1	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0722.5	0722.6	.1	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0823.1	0823.3	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0823.3	0823.3	.2	7.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0833.0	0833.1	.1	2.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0833.0	0833.1	.1	10.0			QL=6 ST=2 TYP=3
	2800	OTTA	27	RF	1210.0		375.0	1.2	1.1		
	2800	OTTA	24	R	1210.0	1225.0	15.0	1.2	.6		
	2800	OTTA	24P	R	1225.0		335.0	1.2			
	2800	OTTA	26	FAL	1800.0	1825.0	25.0	-1.2	-.8		
14	127	TORN	43	NS	0923.0		276.0		1.0		V=0
	1470	POTS	20	GRF	0815.0	0907.5	380.0	9.0			
	3000	POTS	20	GRF	0820.0U	0920.0	340.0U	19.0			
	650	GORK	23	GRF	0821.0		10.2	2.0			
	650	GORK	4	S/F	0821.6	0822.9	1.6	8.0			
	950	GORK	1	S	0821.7	0822.4	2.0	2.0			
	810	KRAK	2	S/F	0822.0	0823.0	2.0	8.0	3.0		
	430	KRAK	41	F	0822.7	0826.2	8.5	22.0	3.0		
	9500	POTS	20	GRF	0825.0	0935.0	390.0	16.0U			
	650	GORK	1	S	0825.4	0826.3	1.2	3.0			
	500	HIRA	8	S	0826.0	0826.1	.4	13.0	8.0		0
	2950	GORK	20	GRF	0827.0	0912.0	213.0D	13.0			
	127	TORN	42	SER	0836.7	0839.8	5.3	30.0			
	2800	OTTA	20	GRF	1230.0	1238.0	35.0	2.0	1.0		
	2800	OTTA	20	GRF	2020.0	2030.0	40.0	1.6	1.0		
	2800	OTTA	240	R	2105.0	2115.0	10.0	1.6	.8		
	3750	TYKW	20	GRF	2335.0	2358.0	100.0	2.0	1.0		RAIN
15	260	ONDR	44	NS	0600.0E		480.0D				
	200	HIRA	8	S	0120.3	0120.6	.6	4.0			0
	100	HIRA	46	C	0204.3	0209.3	24.0	62.0	5.0		

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15	200	HIRA	46	C	0207.0	0208.0	12.0	16.0	3.0		0
	200	HIRA			0207.0	0215.3		7.0			0
	3750	TYKW	20	GRF	0210.0	0221.0	30.0	1.5	0.7		
16	810	KRAK	42	SER	0943.5	0959.0	36.0	5.0			
	430	KRAK	42	SER	0944.5	1020.0	35.5U	27.0			
	33	UPIC	4	S/F	1043.5	1043.9	1.2				
	29	UPIC	4	S/F	1043.7	1043.8	.9				
	810	KRAK	42	SER	1104.0	1109.0	25.0	4.0			
	430	KRAK	42	SER	1106.3	1157.0	53.0	32.0			
	930	BORD	8	S	1652.3	1652.3	.1	29.0	1.0		
	930	BORD	41	F	1804.5	1804.8	.5	20.0	2.0		
17	127	TORN	43	NS	0756.0		406.0		4.0		V=1
	100	GORK	43	NS	0910.3		69.0D		5.0		
	260	ONDR	43	NS	1000.0		256.0D				
	200	HIRA	44	NS	2002.0E	0005.0	780.0D	35.0	10.0		MR
	208	VORO	44	NS	2200.0E		215.0D		8.0		
	33	UPIC	42	SER	1034.5		85.3				
	29	UPIC	42	SER	1035.0	1035.1	67.9U				
	810	KRAK	8	S	1122.2	1122.5	.5	12.0			
	930	BORD	45	C	1122.3	1122.6	.7	15.0	3.0		
	2695	PENT	20	GRF	2225.0	0015.0	165.0	3.6	1.8		
18	100	GORK	44	NS	0400.0E		480.0D		10.0		
	100	GORK	44	NS	0400.0E		120.0D		5.0		
	260	ONDR	44	NS	0545.0E		497.0D				
	127	TORN	43	NS	0740.0		382.0		2.0		V=1
	2695	PENT	26	FAL	0010.0	0050.0	40.0	-3.0	-1.5		
	2000	TYKW	32	ABS	0048.0	0110.0	38.0	-2.0	-1.0		
	3750	TYKW	32	ABS	0048.0	0113.0	38.0	-6.0	-3.0		
	9400	TYKW	32	ABS	0052.0	0116.0	35.0	-8.0	-5.0		
	3653	YUNN	45	C	0118.0	0132.6	49.4	59.0			
	2695	PENT	4	S/F	0121.0	0130.8	30.0D	41.0			
	1000	TYKW	45	C	0122.0	0131.1	45.0	27.0	7.0		
	9400	TYKW	45	C	0122.5	0123.8	2.5	4.0	1.0		
	3750	TYKW	45	C	0122.5	0123.8	2.0	3.0	1.0		
	2000	TYKW	45	C	0122.5	0124.0	2.5	2.0	0.7		
	2000	TYKW	45	C	0126.0	0130.9	26.0	31.0	12.0		
	9395	PEKG	45	C	0126.0	0132.6	26.0	8.9	3.5		
	3750	TYKW	45	C	0126.0	0132.7	26.0	42.0	20.0		
	9400	TYKW	45	C	0127.0	0132.6	25.0	40.0	21.0		
	2840	PEKG	45	C	0127.0	0132.7	20.0	40.0	18.0		
	500	HIRA	42	SER	0128.3	0130.6	84.0	100.0			0
	3750	TYKW	30	PBI	0152.0		255.0	7.0	3.5		
	9400	TYKW	30	PBI	0152.0		200.0	16.0	8.0		
	2000	TYKW	30	PBI	0152.0		210.0	4.0	2.0		
	3750	TYKW	5	S	0154.0	0157.5	12.0	7.0	2.0		
	9400	TYKW	5	S	0154.0	0157.6	20.0	7.0	3.0		
	2000	TYKW	5	S	0154.0	0158.0	12.0	5.0	2.0		
	1000	TYKW	30	PBI	0207.0		210.0	1.5	0.7		
	1000	TYKW	45	C	0209.0	0210.2	2.5	4.0	0.5		
	1000	TYKW	45	C	0212.0	0213.5	2.0	5.0	0.7		
	1000	TYKW	45	C	0215.5	0216.6	2.5	2.0	0.5		
	1000	TYKW	45	C	0218.5	0219.3	1.5	16.0	2.0		
	1000	TYKW	45	C	0235.5	0236.6	1.5	4.0	0.5		
	1000	TYKW	45	C	0238.0	0238.2	2.5	11.0	1.0		
	1000	TYKW	45	C	0241.5	0241.6	17.0	28.0	1.0		
	500	HIRA	46	C	0302.6	0311.3	32.0	30.0	12.0		0
	1000	TYKW	45	C	0309.0	0327.4	41.0	43.0	9.0		
	3750	TYKW	20	GRF	0315.0	0337.0	120.0	8.0	3.0		
	2000	TYKW	20	GRF	0315.0	0338.0	120.0	8.0	2.5		
	9400	TYKW	20	GRF	0330.0	0350.0	50.0	3.0	1.5		
	1000	TYKW	29	PBI	0350.0		55.0	8.0	3.0D		
	9100	GORK	20	GRF	0445.3	0447.0	3.5	6.0			
	9100	GORK	1	S	0531.1	0531.4	.9	19.0	10.0		
	650	GORK	4	S/F	0545.0	0545.4	.6	10.0			
	650	GORK	23	GRF	0711.4	0748.0	143.7	5.5			
	1000	TYKW	45	C	0712.0	0712.3	1.0	19.0	5.0		
	2000	TYKW	5	S	0712.0	0712.4	1.5	3.0	1.0		
	930	BORD	41	F	0712.0	0712.5	1.0	19.0	3.0		

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18	1470	POTS	2	S/F	0712.0	0712.5	1.5	5.0			
	3000	POTS	1	S	0712.0	0712.5	.7	2.0			
	650	GORK	2	S/F	0712.9	0713.6	.9	7.0			
	930	BORD	8	S	0728.7	0728.8	.2	22.0	2.0		
	9100	GORK	3	S	0820.6	0821.0	1.6	27.0			
	200	HIRA	8	S	0836.3	0836.7	.5	98.0			0
	204	IZMI	5	S	0836.4	0836.5	.3	77.0	30.0		
	100	GORK	5	S	0845.0	0848.0U	3.4	10.0D			
	9100	GORK	20	GRF	1008.5	1017.3	24.8	7.0			
	9100	GORK	20	GRF	1012.5	1024.5	16.9	6.0			
	930	BORD	8	S	1311.4	1311.4	.2	46.0	2.0		
	2800	OTTA	20	GRF	1315.0	1345.0	105.0	2.0	1.0		
	234	POTS	4	S/F	1359.2	1359.3	.3	140.0	25.0		
	1470	POTS	40	F	1416.0	1420.1	12.0	20.0			
	2800	OTTA	240	AR	1835.0	1935.0	60.0	3.0			
	2800	OTTA	2	S/F	1916.0	1917.0	2.0	2.0	1.0		
	2800	OTTA	21	GRF	1916.0	1924.0	16.0	2.0	1.0		
	2800	OTTA	27A	RF	2130.0		200.0	3.0	2.6		
	2800	OTTA	24	R	2130.0	2147.0	17.0	3.0	1.2		
	2000	TYKW	21	GRF	2130.0	2200.0	100.0	2.0	1.0		
	1000	TYKW	20	GRF	2130.0	2200.0	190.0	5.0	2.5		
	3750	TYKW	28	PRE	2133.0	2135.3	12.0	3.0	1.5		
	3750	TYKW	45	C	2145.0	2151.5	20.0	10.0	5.0		
	2000	TYKW	45	C	2145.0	2152.0	10.0	3.0	1.0		
	2800	OTTA	24P	R	2147.0		143.0	3.0			
	2800	OTTA	2	S/F	2148.5	2151.5	4.5	4.4	2.0		
	2800	OTTA	29	PBI	2153.0	2153.0	9.0	2.0	1.4		
	3750	TYKW	29	PBI	2205.0		60.0	4.0	2.0		
	9400	TYKW	5	S	2346.3	2346.8	2.0	7.0	2.5		RAIN
	3750	TYKW	21	GRF	2358.0	0009.0	30.0	2.0	1.0		
19	245	LEAR	43	NS	0133.5	0321.1	498.5D	57.0			QL=6 ST=2 TYP=1
	200	HIRA	43	NS	0224.0	0545.0	290.0	10.0	4.0		WR
	260	ONDR	44	NS	0546.0E		501.0D				
	245	SGMR	43	NS	1018.0	1155.8		210.0			QL=6 ST=3 TYP=1
	127	TORN	44	NS	1020.0E		166.0D				V=0
	3750	TYKW	31	ABS	0028.0	0048.0	48.0	-2.0	-1.0		
	9400	TYKW	32	ABS	0028.0	0050.0	50.0	-3.0	-1.5		RAIN
	2000	TYKW	32	ABS	0030.0	0050.0	60.0	-1.5	-0.7		
	100	HIRA	46	C	0104.3	0105.2	1.2	240.0	86.0		
	500	HIRA	8	S	0119.5	0120.0	.6	10.0			0
	2840	PEKG	20	GRF	0205.0	0222.2	25.0	7.3	1.5		
	9400	TYKW	45	C	0212.0	0217.9	10.0	14.0	5.0		
	1000	TYKW	45	C	0215.0	0215.5	6.0	18.0	1.0		
	2000	TYKW	5	S	0215.0	0217.5	10.0	1.5	0.5		
	3750	TYKW	45	C	0215.0	0218.0	5.0	6.0	3.0		
	200	HIRA	41	F	0215.3	0218.5	4.6	48.0			WR
	100	HIRA	41	F	0215.5	0217.3	4.1	270.0			
	500	HIRA	8	S	0216.9	0217.1	.6	8.0			0
	3750	TYKW	29	PBI	0220.0		20.0	2.0	1.0		
	9395	PEKG	1	S	0221.0	0224.2	6.0	10.0	6.0		
	9400	TYKW	29	PBI	0222.0		40.0	4.0	2.0		
	200	HIRA	42	SER	0306.5	0318.6	24.0	260.0			0
	9400	TYKW	45	C	0444.0	0447.7	5.0	7.0	5.0		
	3750	TYKW	45	C	0445.0	0445.6	4.0	6.0	4.0		
	2000	TYKW	45	C	0445.0	0446.0	4.0	1.5	0.5		
	3750	TYKW	29	PBI	0449.0		9.0	2.0	1.0		
	9400	TYKW	29	PBI	0449.0		40.0	4.0	2.0		
	200	HIRA	45	C	0530.7	0531.2	1.0	10.0	3.0		WR
	3750	TYKW	5	S	0531.0	0531.3	1.5	3.0	1.0		
	9400	TYKW	5	S	0531.0	0531.4	2.0	18.0	5.0		
	2000	TYKW	5	S	0531.0	0531.4	1.5	1.5	0.5		
	9395	PEKG	3	S	0531.0	0531.4	2.0	22.0	9.0		
	1000	TYKW	5	S	0531.0	0531.4	1.0	3.0	0.7		
	200	HIRA	45	C	0531.0	0531.3	.7	900.0	180.0		0
	8400	BERN	3	S	0531.0	0532.0	1.0	22.0			
	11800	BERN	3	S	0531.0	0532.1	1.0	22.0			
	3100	BERN	3	S	0531.0	0532.4	1.4D	8.0			
	5200	BERN	3	S	0531.0	0532.8	1.8D	13.0			
	6100	KISV	1	S	0531.1	0531.4	.5	7.0			
	100	HIRA	46	C	0531.1	0531.5	1.0	5700.0	740.0		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
19	11800	BERN	3	S	0820.5	0821.0	1.0	26.0			
	5200	BERN	3	S	0820.5	0821.0	1.0	24.0			
	3100	BERN	3	S	0820.5	0821.0	1.0	7.0			
	8400	BERN	3	S	0820.5	0821.1	1.0	30.0			
	9500	POTS	8	S	0820.6	0821.0	.9	23.0			
	6100	KISV	3	S	0820.7	0821.0	.5	29.0			
	3000	POTS	1	S	0820.7	0821.0	.8	4.0			
	1470	POTS	4	S/F	0820.7	0821.0	.8	13.0			
	930	BORD	41	F	0847.3	0847.5	.5	37.0	2.0		
	245	LEAR	4	S/F	0941.8	0944.5	5.5	30.0			QL=5 ST=2 TYP=3
	113	POTS	4	S/F	0956.1	0956.2	.1	100.0	25.0		III
	204	IZMI	5	S	0956.1	0956.3	.5	27.0	10.0		
	29	UPIC	42	SER	0956.1	0956.5	104.4U				
	33	UPIC	42	SER	0956.4	0956.5	145.5				
	430	KRAK	2	S/F	1122.5	1122.7	.5	9.0	2.0		
	245	SGMR	47	GB	1123.0	1123.1	.8	430.0			QL=6 ST=3 TYP=5
	234	POTS	42	SER	1123.0	1123.2	.3	450.0	1.0		III
	204	IZMI	5	S	1123.1	1123.2	.8	1000.0	600.0		
	9100	GORK	1	S	1123.1	1123.3	1.0	10.0	5.0		
	113	POTS	42	SER	1123.1	1123.4	.3	130.0	1.0		III
	204	IZMI	42	SER	1129.5	1156.0	31.0	340.0			
	9100	GORK	1	S	1139.3	1139.7	.9	7.0	3.5		
	245	SGMR	47	GB	1141.1	1141.3	.5	139.0			QL=6 ST=2 TYP=5
	9400	HUAN	2	S/F	1154.8	1156.5	3.1	5.6	2.6		0
	810	KRAK	1	S	1156.5	1156.6	.3	3.0	1.0		
	9400	HUAN	1	S	1206.1	1207.0	1.9	7.0	3.0		R
	2800	OTTA	20	GRF	1230.0	1300.0	75.0	2.0	1.3		
	9400	HUAN	20	GRF	1235.4	1241.9	23.2	4.2	2.0		0
	930	BORD	41	F	1324.4	1324.7	.4	18.0	2.0		
	2800	OTTA	260	FAL	1425.0	1500.0	35.0	-2.0	-1.0		
	2800	OTTA	20	GRF	1505.0	1605.0	95.0	2.4	1.2		
	9400	HUAN	20	GRF	1526.2	1542.5	37.4	2.1	.6		0
	9400	HUAN	22	GRF	1613.7	1626.9	39.4	4.2	2.2		0
	2800	OTTA	1	S	2020.0	2021.2	2.2	1.4	.6		
	100	HIRA	42	SER	2020.3	2020.7	10.0	150.0			
	100	HIRA	8	S	2025.5	2025.8	.7	38.0			
	9400	HUAN	20	GRF	2036.1	2043.5	11.5	8.4	6.3		R
	100	HIRA	46	C	2056.3	2057.4	1.8	690.0	45.0		
	200	HIRA	8	S	2156.7	2157.0	.6	64.0			0
20	245	LEAR	43	NS	0230.0	0632.6	441.0D	54.0			QL=6 ST=2 TYP=1
	33	UPIC	43	NS	0546.0		704.0D				
	29	UPIC	43	NS	0547.0		703.0D				
	260	ONDR	44	NS	0640.0E		442.0D				
	200	HIRA	43	NS	0645.0	0742.0	130.0D	10.0	5.0		WR
	100	HIRA	43	NS	0650.0	0800.0	140.0D	35.0	15.0		
	127	TORN	43	NS	0700.0	0855.0	340.0	140.0	1.0		V=1
	245	SGMR	43	NS	1909.3	2000.3		35.0			QL=6 ST=3 TYP=1
	208	VORO	4	S/F	0010.0	0010.0	1.0	200.0D			
	200	HIRA	45	C	0010.6	0011.0	.7	1400.0	250.0		0
	245	LEAR	47	GB	0010.6	0011.1	1.2	139.0			QL=6 ST=2 TYP=5
	2000	TYKW	5	S	0010.7	0011.0	1.5	3.0	0.7		
	3750	TYKW	5	S	0010.7	0011.0	1.0	8.0	2.0		
	100	HIRA	45	C	0010.8	0011.0	.8	9400.0	1580.0		
	1000	TYKW	5	S	0010.8	0011.2	1.0	1.0	0.3		
	2695	PENT	1	S	0010.9	0011.0	1.0	3.4	1.1		
	9400	TYKW	21	GRF	0017.0	0026.0	45.0	3.0	1.5		
	3750	TYKW	45	C	0018.0	0019.2	9.0	6.0	3.0		
	4995	LEAR	4	S/F	0018.0	0019.1	3.6	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0018.3	0019.1	1.5	8.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	0018.7	0019.1	1.5	5.0	1.5		
	2695	LEAR	8	S	0018.8	0019.6	1.0	15.0			QL=1 ST=2 TYP=3
	3750	TYKW	30	PBI	0027.0		35.0	2.0	1.0		
	100	HIRA	42	SER	0027.9	0029.4	6.0	920.0			
	1000	TYKW	5	S	0029.0	0030.1	4.0	1.5	0.5		
	2000	TYKW	5	S	0029.5	0030.2	1.5	1.5	0.5		
	2695	PENT	1	S	0033.0	0034.3	2.5	1.8	.8		
	9400	TYKW	45	C	0033.0	0034.3	10.0	6.0	2.0		
	1000	TYKW	45	C	0033.5	0034.6	1.5	1.5	0.5		
	2000	TYKW	5	S	0034.0	0034.4	1.5	2.0	0.7		
	3750	TYKW	5	S	0034.0	0034.4	1.0	2.0	0.7		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
20	2000	TYKW	5	S	0036.8	0037.2	1.5	1.5	0.5		
	9400	TYKW	5	S	0041.0	0044.4	12.0	11.0	2.5		
	410	LEAR	8	S	0104.8	0104.8	.2	9.0			QL=5 ST=2 TYP=3
	245	LEAR	8	S	0104.8	0104.8	.2	5.0			QL=5 ST=2 TYP=3
	208	VORO	40	F	0114.0	0115.0	6.0	68.0			
	1000	TYKW	5	S	0114.0	0115.1	3.0	1.0	0.3		
	200	HIRA	42	SER	0114.2	0115.0	5.3	110.0			0
	100	HIRA	46	C	0114.3	0114.7	1.7	260.0	55.0		
	2000	TYKW	5	S	0114.5	0115.1	6.0	2.0	0.5		
	245	LEAR	8	S	0114.6	0115.0	1.4	34.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0114.8	0115.0	.3	5.0			QL=6 ST=2 TYP=3
	9395	PEKG	3	S	0142.0	0145.0	8.0	10.3	5.0		
	8800	LEAR	4	S/F	0143.3	0144.8	3.0	11.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0143.6	0144.8	2.5	16.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0156.1	0156.5	.9	5.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0156.3	0156.5	.5	54.0			QL=6 ST=2 TYP=5
	245	LEAR	8	S	0159.3	0201.1	2.0	33.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0212.8	0213.0	.3	10.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0214.6	0215.1	.7	23.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0227.3	0227.5	.3	33.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0430.0	0433.5	20.0	1.5	0.7		
	245	LEAR	8	S	0456.6	0456.6	1.0	13.0			QL=6 ST=3 TYP=3
	100	HIRA	46	C	0458.5	0458.7	1.5	580.0	74.0		
	2000	TYKW	5	S	0458.5	0459.3	2.5	1.5	0.5		
	1000	TYKW	5	S	0458.5	0459.3	3.0	1.5	0.5		
	9100	GORK	21	GRF	0518.0E	0703.4	205.0D	24.0			
	100	HIRA	41	F	0545.0	0546.3	4.0	46.0			
	2000	TYKW	5	S	0546.0	0546.8	3.0	2.0	0.7		
	2950	GORK	1	S	0546.7	0546.9	.9	2.3			
	410	LEAR	8	S	0558.3	0558.5	.3	10.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0610.0	0651.0	140.0	6.0	3.0		
	2000	TYKW	21	GRF	0610.0	0716.0	140.0	5.0	2.5		
	2950	GORK	21	GRF	0613.6	0706.0	180.0	9.2			
	9400	TYKW	5	S	0615.0	0618.5	10.0	4.0	1.5		
	3750	TYKW	45	C	0615.0	0619.5	10.0	10.0	4.0		
	2000	TYKW	45	C	0615.0	0619.5	9.0	7.0	2.5		
	5200	BERN	3	S	0616.0	0618.3	6.0	15.0			
	3100	BERN	3	S	0616.0	0618.8	6.0	21.0			
	3100	CRIM	1	S	0616.0	0619.7	5.0	12.0	4.0		
	2695	LEAR	4	S/F	0616.5E	0619.3	6.0D	13.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0616.6E	0619.3	6.4D	11.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0616.6E	0619.5	5.9D	5.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	0617.0	0618.7	3.5	7.6			
	410	LEAR	8	S	0618.1	0618.1	.2	11.0			QL=6 ST=2 TYP=3
	3100	CRIM	29	PBI	0621.0	0621.0	6.0	5.0	2.0		
	9400	TYKW	21	GRF	0636.0	0710.0	110.0	8.0	4.0		
	3100	CRIM	21	GRF	0639.0	0706.0	141.0	7.0	2.0		
	650	GORK	23	GRF	0647.1	0703.5	36.9	7.0			
	3750	TYKW	21	GRF	0654.0	0706.0	50.0	4.0	2.0		
	200	HIRA	42	SER	0654.4	0655.5	2.0	940.0			WR
	204	IZMI	42	SER	0654.4	0655.8	12.0	600.0			
	234	POTS	41	F	0654.5	0655.6	1.9	300.0	10.0		III/V
	100	HIRA	42	SER	0654.7	0656.1	3.0	670.0			
	113	POTS	42	SER	0654.7	0701.4	7.0	100.0	3.0		III
	1000	TYKW	5	S	0655.0	0655.7	5.0	12.0	4.0		
	2000	TYKW	5	S	0655.0	0655.8	3.0	11.0	4.0		
	3750	TYKW	5	S	0655.0	0655.9	3.0	5.0	2.0		
	950	GORK	20	GRF	0655.2	0655.8	12.8	9.0	4.5		
	3100	CRIM	1	S	0655.4	0655.7	2.0	9.0	3.0		
	650	GORK	1	S	0655.4	0655.8	2.3	4.5			
	500	HIRA	22	GRF	0655.4	0659.6	38.0	6.0	2.0		WR
	610	LEAR	4	S/F	0655.5	0655.8	2.5	7.0			QL=6 ST=2 TYP=3
	2950	GORK	1	S	0655.5	0655.8	1.6	7.7			
	1470	POTS	3	S	0655.5	0655.9	4.0	10.0			
	3000	POTS	3	S	0655.5	0655.9	4.0	10.0			
	2000	TYKW	30	PBI	0658.0		13.0	2.0	1.0		
	1000	TYKW	45	C	0700.0	0706.0	12.0	6.0	2.0		
	2000	TYKW	5	S	0700.5	0701.6	4.0	2.0	0.7		
	4995	ATHN	20	GRF	0704.1	0713.8	21.5	5.0			QL=6 ST=3 TYP=2
	1415	ATHN	20	GRF	0704.1	0714.1	19.0	13.0			QL=6 ST=3 TYP=2
	2000	TYKW	5	S	0705.0	0706.3	4.0	2.0	0.7		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
20	200	HIRA	8	S	0705.1	0705.3	.4	325.0			0
	8800	ATHN	20	GRF	0708.1	0713.1	9.0	16.0			QL=6 ST=3 TYP=2
	15400	ATHN	20	GRF	0708.1	0713.1	9.0	16.0			QL=6 ST=2 TYP=2
	245	LEAR	8	S	0720.8	0721.1	.8	50.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0729.3	0729.5	.3	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0729.3	0729.5	.3	6.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0736.3	0736.9	1.5	2.5	1.0		
	9500	POTS	1	S	0752.7	0753.5	1.3	9.0			
	9400	TYKW	5	S	0753.0	0753.7	2.0	7.0	2.0		
	9100	GORK	1	S	0753.3	0753.7	.8	5.0			
	245	LEAR	8	S	0754.0	0754.1	.1	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0754.0	0754.1	.1	20.0			QL=6 ST=2 TYP=3
	200	HIRA	8	S	0756.0	0756.3	.5	160.0			WR
	204	IZMI	5	S	0756.1	0756.3	.8	150.0	80.0		
	245	LEAR	47	GB	0756.3	0756.3	.3	83.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0813.3	0813.3	.2	20.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0813.3	0813.3	.2	15.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	0818.7	0819.0	1.1	370.0	94.0		
	113	POTS	4	S/F	0819.0	0819.0	.7	350.0	10.0		III
	410	LEAR	8	S	0836.1	0836.3	.2	29.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0836.1	0836.3	.2	13.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0850.7	0851.1	1.0	5.0			
	204	IZMI	41	F	0851.0	0851.8	4.5	110.0			
	100	HIRA	8	S	0854.5	0854.5	.6	6700.0			
	234	POTS	4	S/F	0854.5	0854.7	.8	330.0	60.0		III/V
	113	POTS	4	S/F	0854.6	0854.6	.6	900.0	60.0		III/V
	245	LEAR	47	GB	0854.6	0854.6	.5	270.0			QL=6 ST=2 TYP=5
	610	LEAR	8	S	0854.6	0854.6	.2	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0859.1	0859.1	.2	27.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0901.6	0902.1	.9	8.0	4.0		
	810	KRAK	1	S	0935.5	0935.7	.5	2.0	1.0		
	9100	GORK	20	GRF	0939.2	0939.9	18.8	6.0			
	930	BORD	8	S	1007.6	1007.6	.1	37.0	1.0		
	204	IZMI	8	S	1032.0	1032.1	.3	580.0	400.0		
	113	POTS	8	S	1042.5	1042.6	.2	10.0	35.0		
	810	KRAK	8	S	1110.0	1110.0	.1	7.0			
	810	KRAK	8	S	1121.7	1121.7	.1	5.0			
	810	KRAK	8	S	1136.5	1136.5	.1	5.0			
	2800	OTTA	22	GRF	1140.0	1235.0	90.0	2.6	1.3		
	810	KRAK	8	S	1140.0	1140.0	.1	5.0			
	234	POTS	4	S/F	1411.5	1412.0	1.0	450.0	35.0		III/V
	3000	POTS	4	S/F	1411.5	1412.1	3.5	10.0			
	245	SGMR	49	GB	1411.6	1411.8	1.4	1899.0			QL=6 ST=2 TYP=6
	113	POTS	4	S/F	1411.6	1412.1	1.0	9000.0	500.0		III/V
	410	SGMR	8	S	1411.8	1411.8	1.2	13.0			QL=6 ST=2 TYP=3
	2695	PENT	1	S	1411.8	1412.0	10.0	9.0	3.0		
	1415	SGMR	4	S/F	1411.8	1412.1	2.8	11.0			QL=6 ST=2 TYP=3
	1470	POTS	29	PBI	1411.8	1412.1	11.0	8.0			
	113	POTS	8	S	1445.6	1445.7	.2	200.0	70.0		III
	2800	OTTA	20	GRF	1545.0	1550.0	25.0	2.4	1.7		
	930	BORD	46	C	1658.0	1658.4	.4	36.0	3.0		
	2800	OTTA	21	GRF	1720.0	2030.0	250.0	4.6	2.4		
	2800	OTTA	3	S	1724.0	1728.0	7.0	10.6	6.4		
	4995	SGMR	4	S/F	1726.8	1727.8	2.5	19.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	1727.0	1728.8	2.3	17.0			QL=6 ST=2 TYP=3
	2800	OTTA	29	PBI	1731.0	1731.0	35.0	4.8	1.8		
	2800	OTTA	1	S	1900.0	1900.5	2.0	2.2	1.0		
	245	SGMR	8	S	1900.3	1900.6	.5	139.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	1900.5	1900.6	.3	59.0			QL=6 ST=3 TYP=5
	245	PALE	8	S	1906.6	1906.6	.2	16.0			QL=6 ST=2 TYP=3
	245	SGMR	8	S	1908.6	1908.8	.7	230.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	2056.0	2057.0	3.0	1.8	.9		
	3750	TYKW	5	S	2315.0	2316.5	10.0	2.0	1.0		
21	260	ONDR	44	NS	0550.0E		498.0D				
	29	UPIC	43	NS	0647.4		275.9				
	33	UPIC	43	NS	0647.4		275.1				
	245	LEAR	43	NS	0650.8	0654.3	179.2D	17.0			QL=6 ST=3 TYP=1
	245	PALE	43	NS	1955.0	2001.0	511.0D	39.0			QL=6 ST=2 TYP=1
	9400	TYKW	5	S	0008.8	0008.9	0.5	8.0	2.0		
	2000	TYKW	5	S	0008.9	0009.0	0.5	1.5	0.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
21	3750	TYKW	20	GRF	0030.0	0051.0	55.0	2.0	1.0		
	9400	TYKW	20	GRF	0030.0	0055.0	60.0	2.0	1.0		
	200	HIRA	45	C	0038.0	0038.3	.7	1200.0	440.0		0
	410	LEAR	8	S	0038.1	0038.1	.5	10.0			QL=6 ST=2 TYP=3
	245	LEAR	49	GB	0038.1	0038.1	.5	1000.0			QL=6 ST=2 TYP=6
	3750	TYKW	21	GRF	0129.0	0201.0	70.0	1.5	0.7		
	3750	TYKW	5	S	0146.5	0147.5	2.5	6.0	1.5		
	200	HIRA	46	C	0146.7	0147.0	1.2	240.0	86.0		0
	2000	TYKW	5	S	0146.7	0147.5	5.0	3.0	1.0		
	9400	TYKW	5	S	0147.0	0147.5	2.0	3.0	1.0		
	1000	TYKW	5	S	0147.0	0147.6	4.0	2.5	0.7		
	208	VORO	4	S/F	0147.0	0148.0	1.0	210.0			
	245	PALE	47	GB	0147.0	0147.1	.5	79.0			QL=6 ST=2 TYP=5
	4995	PALE	8	S	0147.3	0147.3	.3	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	21	GRF	0345.0	0349.5	80.0	1.5	0.7		
	9400	TYKW	32	ABS	0408.0	0416.0	20.0	-3.0	-1.5		
	950	GORK	20	GRF	0427.0	0431.8	10.2	1.5			
	2000	TYKW	5	S	0431.3	0431.7	2.0	2.5	1.0		
	9400	TYKW	5	S	0431.3	0431.7	2.0	6.0	2.0		
	100	HIRA	46	C	0431.4	0432.0	.8	70.0	32.0		
	3750	TYKW	45	C	0431.5	0431.7	2.6	13.0	3.0		
	1000	TYKW	5	S	0431.5	0431.7	1.5	1.5	0.5		
	2950	GORK	1	S	0431.5	0431.7	.9	6.1			
	9100	GORK	1	S	0431.5	0431.7	2.9	6.0	3.0		
	650	GORK	1	S	0431.6	0433.6	2.9	3.5			
	3750	TYKW	29	PBI	0434.0		10.0	1.0	0.5		
	3750	TYKW	21	GRF	0513.0	0530.0	145.0	3.0	1.5		
	200	HIRA	46	C	0513.5	0514.2	1.0	64.0	24.0		WR
	2000	TYKW	20	GRF	0514.0	0515.5	40.0	2.0	1.0		
	9400	TYKW	20	GRF	0517.0U	0529.0	45.0U	4.0	1.5		INTERFERENCE
	200	HIRA	46	C	0646.3	0646.4	1.1	85.0	49.0		0
	245	LEAR	47	GB	0646.5	0647.0	1.3	320.0			QL=6 ST=2 TYP=5
	204	IZMI	4	S/F	0646.5	0647.0	2.0	56.0	35.0		
	410	LEAR	8	S	0646.5	0647.0	1.3	39.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0646.5	0647.2	5.0	12.0	2.5		
	5200	BERN	3	S	0646.5	0647.2	2.0	27.0			
	8400	BERN	3	S	0646.5	0647.3	2.0	41.0			
	9400	TYKW	5	S	0646.5	0647.3	3.5	33.0	7.0		
	1000	TYKW	5	S	0646.5	0647.4	4.0	4.0	1.5		
	2000	TYKW	5	S	0646.5	0647.4	3.5	8.0	3.0		
	3100	BERN	3	S	0646.5	0647.4	2.0	14.0			
	234	POTS	4	S/F	0646.6	0646.8	1.2	440.0	20.0		III/V
	4995	LEAR	8	S	0646.6	0647.1	.7	17.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0646.6	0647.1	1.0	26.0			QL=6 ST=2 TYP=3
	9100	GORK	3	S	0646.6	0647.3	2.7	33.0			
	2950	GORK	1	S	0646.7	0647.4	3.8	7.8			
	3000	POTS	3	S	0646.7	0647.5	2.8	9.0			
	19600	BERN	3	S	0646.8	0647.1	2.0	38.0			
	15400	LEAR	8	S	0646.8	0647.3	1.3	30.0			QL=6 ST=2 TYP=3
	11800	BERN	3	S	0646.8	0647.3	2.0	42.0			
	9500	POTS	3	S	0646.8	0647.4	7.0	36.0			
	1470	POTS	3	S	0646.8	0647.5	2.7	4.0			
	2695	LEAR	4	S/F	0646.8	0647.5	9.5	11.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0646.8	0647.5	9.5	10.0			QL=6 ST=2 TYP=3
	650	GORK	1	S	0646.8	0647.5	2.3	2.0			
	113	POTS	4	S/F	0646.9	0647.5	1.1	100.0	10.0		III
	100	HIRA	46	C	0647.0	0647.7	1.5	680.0	110.0		
	3000	IZMI	5	S	0647.0	0648.0	3.5	16.0	8.0		
	950	GORK	1	S	0647.1	0647.4	2.9	3.0			
	2000	TYKW	29	PBI	0650.0		10.0	2.0	1.0		
	536	ONDR	8	S	0716.0	0716.0	.5	59.0			
	430	KRAK	8	S	0720.2	0720.5	.7	51.0			
	410	LEAR	8	S	0735.6	0735.6	.2	9.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0735.6	0735.6	.2	7.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0759.8	0800.0	.3	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0759.8	0800.0	.3	24.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0823.3	0823.3	.2	28.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0823.3	0823.3	.2	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0846.1	0846.1	.2	28.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0846.1	0846.1	.2	4.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0908.8	0908.8	.2	37.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
21	410	LEAR	8	S	0931.8	0932.0	.3	17.0			QL=6 ST=2 TYP=3
	113	POTS	8	S	0958.9	0959.0	.2	120.0	40.0		III
	2950	GORK	1	S	1006.3	1006.7	.9	2.4	1.2		
	8400	BERN	3	S	1031.2	1032.0	8.0	39.0			
	11800	BERN	3	S	1031.2	1032.1	8.0	72.0			
	19600	BERN	3	S	1031.2	1032.1	8.0	82.0			
	8800	SGMR	4	S/F	1031.3	1032.1	2.5	38.0			QL=4 ST=2 TYP=3
	9100	GORK	3	S	1031.4	1035.0	3.6U	35.0			
	15400	SGMR	47	GB	1031.5	1032.1	2.5	110.0			QL=4 ST=2 TYP=5
	9100	GORK	29	PBI	1032.6	1035.5	8.0	15.0			
	9100	GORK	20	GRF	1131.0	1135.2	13.2	4.0			
	204	IZMI	5	S	1145.3	1145.5	1.0	84.0	45.0		
	245	SGMR	8	S	1145.3	1145.5	1.5	33.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	1214.5	1231.0	40.0	18.0			
	245	SGMR	47	GB	1227.8	1228.5	.8	83.0			QL=6 ST=2 TYP=5
	245	SGMR	47	GB	1256.0	1257.8	2.1	110.0			QL=6 ST=2 TYP=5
	234	POTS	4	S/F	1256.0	1257.8	2.1	150.0	20.0		III
	430	KRAK	41	F	1256.0	1258.0	2.0	24.0	6.0		
	2800	OTTA	1	S	1615.0	1615.8	2.0	2.2	1.1		
	2800	OTTA	22	GRF	1630.0	1636.0	20.0	5.2	2.4		
	2800	OTTA	1	S	1844.0	1845.0	5.0	2.0	.9		
	15400	SGMR	8	S	2033.1	2033.5	.7	22.0			QL=6 ST=2 TYP=3
	8800	SGMR	8	S	2033.3	2033.5	.3	21.0			QL=6 ST=2 TYP=3
	100	HIRA	46	C	2055.1	2056.5	2.0	1100.0	145.0		
	200	HIRA	46	C	2055.2	2056.0	1.6	900.0	100.0		0
	245	SGMR	47	GB	2055.3	2055.6	1.0	410.0			QL=6 ST=3 TYP=5
	245	PALE	47	GB	2055.5	2055.6	.6	410.0			QL=6 ST=3 TYP=5
	2800	OTTA	2	S/F	2055.5	2056.2	3.0	4.4	2.2		
	3750	TYKW	21	GRF	2203.0	2232.0	60.0	2.0	1.0		
	3750	TYKW	5	S	2223.0	2224.0	3.0	2.0	0.7		
	2800	OTTA	21	GRF	2223.0	2225.0	35.0	2.0	1.2		
	2800	OTTA	1	S	2223.7	2224.0	1.5	3.2	1.4		
	245	LEAR	8	S	2304.0	2304.1	.1	16.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2308.0	2309.2	3.0	2.0	0.7		
	9400	TYKW	5	S	2326.0	2327.5	4.0	36.0	13.0		
	9400	TYKW	29	PBI	2330.0		7.0	5.0	2.0		
	15400	LEAR	4	S/F	2349.8	2350.6	2.3	24.0			QL=5 ST=2 TYP=3
22	245	LEAR	43	NS	0059.3	0705.8	475.7D	94.0			QL=6 ST=2 TYP=1
	260	ONDR	44	NS	0555.0E		495.0D	.7			
	245	LEAR	43	NS	2256.0	0724.8	652.0D	53.0			QL=6 ST=2 TYP=1
	2000	TYKW	5	S	0000.0	0000.5	2.0	6.0	2.0		
	2695	PENT	1	S	0000.0	0000.5	1.5	8.8	4.0		
	2930	VORO	45	C	0000.0	0005.0	20.0	193.0			
	15400	LEAR	4	S/F	0002.6	0003.3	3.9	22.0			QL=5 ST=2 TYP=3
	8800	LEAR	47	GB	0002.6	0004.6	9.2	51.0			QL=5 ST=2 TYP=5
	2695	LEAR	47	GB	0002.8	0004.6	9.0	86.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0002.8	0004.6	9.0	100.0			QL=6 ST=2 TYP=5
	2000	TYKW	45	C	0003.0	0004.7	10.0	25.0	5.0D		
	3750	TYKW	5	S	0003.0E	0004.7	10.0D	133.0	21.0D		
	2695	PENT	3	S	0003.5	0004.6	12.5	84.0	16.8		
	8800	PALE	47	GB	0004.3	0004.6	2.3	51.0			QL=6 ST=2 TYP=5
	4995	PALE	47	GB	0004.3	0004.6	2.3	94.0			QL=6 ST=2 TYP=5
	15400	PALE	8	S	0004.5	0004.6	1.1	27.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0004.8	0004.8	.2	8.0			QL=5 ST=2 TYP=3
	9400	TYKW	5	S	0007.0E	0007.0U	7.0D	10.0	3.0D		
	2000	TYKW	29	PBI	0013.0		15.0	3.0	1.0		
	3750	TYKW	29	PBI	0013.0		40.0	3.0	1.0		
	2695	PENT	29	PBI	0016.0	0016.0	35.0	3.4	1.7		
	3750	TYKW	45	C	0103.5	0109.0	9.5	4.0	2.0		
	2695	PENT	1	S	0104.0	0104.2	1.0	2.6	1.3		
	3750	TYKW	29	PBI	0113.0		15.0	2.0	1.0		
	3750	TYKW	21	GRF	0132.0	0158.0	55.0	3.0	1.5		
	3750	TYKW	5	S	0142.0	0145.5	12.0	3.0	1.0		
	3750	TYKW	21	GRF	0250.0	0318.0	115.0	5.0	2.0		
	2000	TYKW	21	GRF	0250.0	0328.0	110.0	3.0	1.5		
	200	HIRA	46	C	0301.8	0304.6	10.3	14.0	6.0		WR
	100	HIRA	46	C	0302.0	0304.7	13.7	130.0	36.0		
	208	VORO	40	F	0303.0	0307.0	10.0	40.0			
	245	LEAR	4	S/F	0303.1E	0305.0	5.5D	45.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0303.1	0305.1	4.9	5.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
22	1000	TYKW	45	C	0304.0	0305.5	4.0	2.0	0.7		
	500	HIRA	45	C	0304.2	0305.1	4.0	30.0	12.0		SR
	610	PALE	8	S	0304.6	0305.0	1.5	19.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0304.6	0305.3	1.4	20.0			QL=6 ST=2 TYP=3
	410	LEAR	4	S/F	0304.8	0305.6	2.8	20.0			QL=6 ST=2 TYP=3
	410	PALE	8	S	0304.8	0305.8	1.7	22.0			QL=6 ST=2 TYP=3
	245	PALE	8	S	0307.3	0307.5	.3	18.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	0328.0	0328.7	1.5	1.5	0.5		
	3750	TYKW	5	S	0343.0	0343.3	1.0	1.5	0.5		
	9400	TYKW	5	S	0415.0	0415.3	3.0	5.0	1.5		
	3750	TYKW	45	C	0415.0	0415.3	3.0	2.5	1.5		
	2000	TYKW	45	C	0415.0	0415.7	1.0	5.0	1.0		
	3750	TYKW	29	PBI	0418.0		20.0	1.0	0.5		
	2000	TYKW	21	GRF	0515.0	0620.0	130.0	3.0	1.5		
	9395	PEKG	3	S	0532.0	0534.0	2.0	19.7	5.9		
	4995	ATHN	8	S	0532.5	0533.0	1.1	25.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	0532.5	0533.0	1.1	18.0			QL=6 ST=2 TYP=3
	2840	PEKG	3	S	0533.0	0534.0	2.5	14.3	6.5		
	3750	TYKW	45	C	0533.0	0534.0	4.0	18.0	3.0		
	5200	BERN	3	S	0533.5	0533.8	1.0	36.0			
	8400	BERN	3	S	0533.5	0533.8	1.0	33.0			
	9400	TYKW	5	S	0533.5	0533.9	1.5	17.0	5.0		
	2950	GORK	1	S	0533.5	0534.0	2.5	10.7			
	3100	BERN	3	S	0533.5	0534.0	1.0	21.0			
	2000	TYKW	5	S	0533.5	0534.1	2.0	3.0	1.0		
	4995	LEAR	8	S	0533.6	0533.8	.5	22.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0533.6	0533.8	.5	6.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0533.8	0533.8	.3	19.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0533.8	0534.0	.3	13.0			QL=6 ST=2 TYP=3
	100	HIRA	8	S	0534.0	0534.0	.5	1500.0			
	245	LEAR	47	GB	0534.0	0534.1	.1	160.0			QL=6 ST=2 TYP=5
	9100	GORK	1	S	0536.4	0537.0	1.2	19.0	10.0		
	3750	TYKW	21	GRF	0542.0	0627.0	105.0	3.0	1.5		
	2950	GORK	21	GRF	0543.4	0653.0	101.0	6.1			
	410	LEAR	8	S	0554.1	0554.1	.4	15.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0604.8	0605.0	.3	16.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0624.0	0624.1	.4	290.0	50.0		
	245	LEAR	49	GB	0624.1	0624.1	.2	900.0			QL=6 ST=2 TYP=6
	3750	TYKW	5	S	0638.5	0640.3	3.5	6.0	1.5		
	2950	GORK	1	S	0639.7	0640.2	1.1	4.6			
	2000	TYKW	5	S	0639.7	0640.3	2.0	1.5	0.5		
	9400	TYKW	20	GRF	0644.0	0653.0	40.0	4.0	2.0		
	245	LEAR	47	GB	0648.1	0648.1	.4	380.0			QL=6 ST=2 TYP=5
	234	POTS	8	S	0648.1	0648.2	.2	825.0	275.0		
	204	IZMI	5	S	0648.1	0648.2	.3	200.0	100.0		
	3750	TYKW	5	S	0650.0	0653.0	6.0	3.0	1.0		
	2000	TYKW	45	C	0650.5	0652.6	5.5	1.0	0.3		
	410	LEAR	8	S	0652.0	0652.1	.1	11.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0652.0	0652.1	.1	6.0			QL=6 ST=2 TYP=3
	245	LEAR	47	GB	0707.8	0707.8	.3	54.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0707.8	0707.8	.3	5.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0739.1	0739.1	.2	20.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0739.1	0739.1	.2	11.0			QL=6 ST=2 TYP=3
	9400	TYKW	20	GRF	0742.0	0748.5	35.0	4.0	2.0		
	536	ONDR	8	S	0752.5	0752.5	.2	59.0			
	245	LEAR	8	S	0803.0	0803.1	.1	6.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0803.0	0803.1	.1	16.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0823.0	0823.1	.3	24.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0823.0	0823.1	.1	4.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0826.6	0826.6	.2	27.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0826.6	0826.6	.2	29.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0850.0	0850.1	.1	9.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0850.0	0850.1	.1	33.0			QL=6 ST=2 TYP=3
	11800	BERN	22	GRF	0907.0	0918.0	30.0	40.0			
	8400	BERN	22	GRF	0907.0	0918.0	30.0	65.0			
	5200	BERN	22	GRF	0907.0	0918.1	30.0	81.0			
	3100	BERN	22	GRF	0907.0	0918.1	30.0	48.0			
	430	KRAK	42	SER	0908.5	0918.5	11.5	13.0			
	9100	GORK	21	GRF	0913.2	0919.6	16.0	08.0			
	2950	GORK	4	S/F	0915.5	0918.0	6.0	26.0			
	9500	POTS	4	S/F	0915.5	0918.0	2.5U	30.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
22	3000	IZMI	5	S	0916.0	0918.0	7.0	22.0	10.0		
	3000	POTS	4	S/F	0916.0	0918.0	6.0	27.0			
	4995	ATHN	4	S/F	0916.3	0918.0	4.8	49.0			QL=6 ST=2 TYP=3
	9100	GORK	46	C	0916.5	0916.8	2.9	20.0			
	1470	POTS	4	S/F	0916.5	0917.5	6.5	12.0			
	9100	GORK			0916.5	0918.1		30.0			
	4995	LEAR	4	S/F	0916.6	0918.0	4.0	49.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0916.8	0918.0	3.8	30.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0917.1	0917.3	3.7	13.0			QL=6 ST=2 TYP=3
	8800	ATHN	8	S	0917.6	0918.0	1.5	22.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0917.8	0918.0	1.8	28.0			QL=6 ST=2 TYP=3
	950	GORK	1	S	0918.0	0918.6	1.7	2.0			
	650	GORK	3	S	0919.8	0920.2	1.3	10.0			
	810	KRAK	8	S	1021.7	1021.7	.1	4.0			
	430	KRAK	8	S	1021.7	1021.8	.2	23.0			
	2950	GORK	1	S	1040.6	1041.0	1.3	3.0	1.5		
	1470	POTS	4	S/F	1147.0	1148.2	2.5	7.0			
	245	SGMR	49	GB	1147.1	1147.3	1.7	720.0			QL=1 ST=2 TYP=6
	3000	POTS	3	S	1147.2	1148.4	1.8	12.0			
	810	KRAK	27	RF	1147.2	1148.5	2.3	2.0	1.0		
	234	POTS	41	F	1147.3	1147.6	1.7	700.0	15.0		
	430	KRAK	4	S/F	1147.3	1149.5	2.3	21.0	4.0		
	2800	OTTA	3	S	1148.0	1148.4	1.0	12.6	4.2		
	204	IZMI	4	S/F	1148.0	1148.2	1.5	180.0	90.0		
	430	KRAK	42	SER	1155.5	1211.5	23.0	71.0			
	9500	POTS	1	S	1412.5	1413.4	1.5	7.0			
	2800	OTTA	4	S/F	1559.0	1559.6	2.0	10.0	3.4		
	2800	OTTA	2	S/F	1836.0	1837.3	7.0	5.0	1.8		
	2800	OTTA	1	S	1952.0	1952.3	1.0	1.4	.6		
	3750	TYKW	5	S	2217.0	2223.0	14.0	2.0	1.0		
	2000	TYKW	20	GRF	2230.0	2300.0	50.0	1.5	0.7		
	2695	PENT	20	GRF	2230.0	2315.0	120.0	3.4			
	3750	TYKW	21	GRF	2232.0	2307.0	150.0	4.0	2.0		
	3750	TYKW	45	C	2236.0	2255.0	19.0U	3.0	1.5		
	3750	TYKW	20	GRF	2350.0	0009.0	50.0	2.0	1.0		
23	245	LEAR	43	NS	2345.0	0811.3	603.0D	99.0			QL=6 ST=2 TYP=1
	3750	TYKW	21	GRF	0120.0	0140.0	60.0	1.5	0.7		
	3750	TYKW	45	C	0200.0	0202.0	12.0	1.5	0.5		
	1000	TYKW	5	S	0324.0	0324.6	3.0	1.0	0.3		
	3750	TYKW	5	S	0340.0	0344.0	15.0	1.5	0.5		
	2000	TYKW	5	S	0341.0	0343.7	10.0	1.5	0.5		
	410	LEAR	8	S	0423.0	0423.1	.1	13.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0423.0	0423.1	.1	11.0			QL=6 ST=2 TYP=3
	2000	TYKW	21	GRF	0450.0	0530.0	180.0	4.0	2.0		
	3750	TYKW	21	GRF	0500.0	0530.0	180.0	5.0	2.5		
	1000	TYKW	20	GRF	0500.0	0540.0	170.0	1.5	0.7		
	9400	TYKW	5	S	0628.0	0629.7	5.0	3.0	1.0		
	3750	TYKW	28	PRE	0650.0	0658.0	8.0	2.0	1.0		
	4995	ATHN	20	GRF	0652.5	0659.5	20.8	24.0			QL=5 ST=2 TYP=2
	5200	BERN	3	S	0654.0	0659.5	15.0	43.0			
	3100	BERN	3	S	0654.0	0659.6	15.0	35.0			
	8400	BERN	3	S	0654.0	0659.6	15.0	36.0			
	8800	ATHN	20	GRF	0655.6	0659.5	6.7	13.0			QL=5 ST=2 TYP=2
	3653	YUNN	3	S	0657.6	0659.7	5.7	30.0			
	6100	KISV	4	S/F	0657.8	0659.5	2.0	23.0			
	2000	TYKW	5	S	0658.0	0659.6	4.0	9.0	3.5		
	2840	PEKG	3	S	0658.0	0659.6	4.0	22.2	7.0		
	3750	TYKW	5	S	0658.0	0659.6	5.0	28.0	9.0		
	9400	TYKW	5	S	0658.0	0659.6	3.0	15.0	6.0		
	9395	PEKG	3	S	0658.0	0659.6	6.0	16.4	6.3		
	3000	IZMI	5	S	0658.0	0658.5	2.0	13.0	6.0		
	8800	LEAR	4	S/F	0658.0	0659.5	3.1	18.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0658.1	0659.5	3.4	28.0			QL=6 ST=2 TYP=3
	2950	GORK	3	S	0658.1	0659.5	2.5	6.0	3.0		
	2695	LEAR	4	S/F	0658.1	0659.5	3.2	23.0			QL=6 ST=2 TYP=3
	9100	GORK	1	S	0658.4	0659.5	3.2	15.0	7.0		
	3000	POTS	3	S	0658.5	0659.5	5.8	12.0			
	9500	POTS	3	S	0658.5	0659.5	2.5	22.0			
	6100	KISV	29	PBI	0659.8	0700.0	20.0	10.0			
	2950	GORK	29	PBI	0700.6	0700.7	5.2	4.7			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
23	9400	TYKW	29	PBI	0701.0		15.0	3.0	1.5		
	2000	TYKW	29	PBI	0702.0		15.0	1.5	0.7		
	3750	TYKW	29	PBI	0703.0		50.0	5.0	2.0		
	4995	ATHN	8	S	0730.6	0731.0	1.4	11.0			QL=5 ST=2 TYP=3
	6100	KISV	2	S/F	0730.8	0731.0	.5	11.0			
	8800	LEAR	8	S	0730.8	0731.0	.3	9.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0730.8	0731.0	.3	15.0			QL=6 ST=2 TYP=3
	2000	TYKW	5	S	0736.5	0737.5	5.0	1.0	0.3		
	610	LEAR	8	S	0737.1	0737.3	.4	6.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0737.1	0737.3	.5	27.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0737.1	0737.3	.4	6.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0737.2	0737.4	.3	110.0	6.0		III
	610	LEAR	8	S	0804.0	0804.1	.3	15.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0946.7	0947.0	.6	110.0	3.0		
	2800	OTTA	20	GRF	1318.0	1335.0	40.0	2.6	1.5		
	2800	OTTA	260	FAL	1430.0	1510.0	40.0	-2.8			
	2800	OTTA	2	S/F	1556.0	1556.5	1.0	1.8			
	2800	OTTA	21	GRF	1735.0	1810.0	50.0	2.2	1.1		
	2800	OTTA	40	F	1750.8	1750.8	.6	10.6			
	245	PALE	47	GB	1820.8	1821.1	.5	290.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	1835.0	1835.1	.6	510.0			QL=6 ST=2 TYP=6
	1000	TYKW	45	C	2223.0	2224.4	5.0	8.0	2.0		
	9400	TYKW	5	S	2305.0	2306.4	3.0	11.0	4.0		
	1000	TYKW	45	C	2306.0	2306.4	1.0	19.0	4.0		
	9400	TYKW	29	PBI	2308.0		20.0	2.0	1.0		
24	410	LEAR	43	NS	0048.5	0102.0	26.3	22.0			QL=6 ST=2 TYP=1
	245	SGMR	43	NS	1010.0	1326.0	783.0D	860.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	2220.0	2340.6	360.0D	59.0			QL=6 ST=2 TYP=1
	245	LEAR	43	NS	2315.0	2340.8	632.0D	75.0			QL=6 ST=2 TYP=1
	410	LEAR	8	S	0046.6	0046.8	.4	41.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0046.8	0047.1	.5	28.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0050.5	0051.1	.8	15.0			QL=6 ST=2 TYP=3
	3750	TYKW	28	PRE	0051.0	0123.0	32.0	4.0	2.0		
	245	LEAR	8	S	0051.0	0051.1	.3	21.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0055.0	0056.4	3.0	1.0	0.3		
	3750	TYKW	5	S	0055.5	0056.4	2.5	3.0	1.0		
	500	HIRA	1	S	0055.7	0056.3	1.0	4.0	3.0		WL
	2000	TYKW	5	S	0056.0	0056.4	2.0	2.5	1.0		
	610	LEAR	8	S	0056.1	0056.6	1.0	11.0			QL=6 ST=2 TYP=3
	2840	PEKG	45	C	0122.0	0126.5	7.0	13.2	8.9		
	2000	TYKW	45	C	0123.0	0124.9	10.0	7.0	3.0		
	9395	PEKG	45	C	0123.0	0127.0	7.0	21.7	11.2		
	3750	TYKW	45	C	0123.0	0127.1	10.0	23.0	8.0		
	9400	TYKW	45	C	0123.0	0127.1	10.0	27.0	13.0		
	2695	PENT	22	GRF	0123.5	0125.0	12.0	8.8			
	4995	LEAR	4	S/F	0123.6	0127.0	9.7	23.0			QL=6 ST=2 TYP=3
	2695	LEAR	4	S/F	0123.6	0128.0	9.7	18.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0124.0	0127.0	9.3	23.0			QL=6 ST=2 TYP=3
	15400	LEAR	4	S/F	0124.1	0127.0	9.2	30.0			QL=6 ST=2 TYP=3
	8800	PALE	4	S/F	0125.6	0126.8	2.4	33.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	0125.6	0127.3	2.4	18.0			QL=6 ST=2 TYP=3
	15400	PALE	8	S	0126.6	0126.8	1.2	26.0			QL=6 ST=2 TYP=3
	2840	PEKG	29	PBI	0129.0		56.0	10.5	4.2		
	9395	PEKG	29	PBI	0130.0		51.0	12.3	7.7		
	8800	PALE	8	S	0130.6	0132.3	2.0	22.0			QL=6 ST=2 TYP=3
	4995	PALE	8	S	0130.8	0132.6	2.0	13.0			QL=6 ST=2 TYP=3
	2000	TYKW	29	PBI	0133.0		55.0	3.0	1.5		
	9400	TYKW	30	PBI	0133.0		180.0	10.0	4.0		
	3750	TYKW	30	PBI	0133.0		170.0	11.0	5.0		
	2000	TYKW	20	GRF	0300.0	0320.0	80.0	2.0	1.0		
	9400	TYKW	20	GRF	0303.0	0319.0	85.0	10.0	5.0		
	3750	TYKW	20	GRF	0305.0	0319.0	80.0	6.0	2.0		
	2000	TYKW	21	GRF	0440.0	0458.0	130.0	2.0	1.0		
	3750	TYKW	21	GRF	0442.0	0500.0	130.0	3.0	1.5		
	9400	TYKW	20	GRF	0444.0	0458.0	95.0	3.0	1.5		
	2950	GORK	20	GRF	0538.4	0548.5	12.6	4.0			
	2000	TYKW	5	S	0548.0	0548.6	1.5	2.0	0.7		
	2950	GORK	20	GRF	0620.6	0624.3	15.4	4.0			
	3750	TYKW	5	S	0622.0	0624.0	10.0	4.0	1.5		
	410	LEAR	8	S	0733.1	0733.1	.2	25.0			QL=6 ST=2 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
24	245	LEAR	47	GB	0733.1	0733.1	.2	51.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0755.1	0755.1	.2	13.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0755.1	0755.1	.2	11.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0811.5	0811.8	.4	125.0	10.0		
	245	LEAR	47	GB	0817.8	0817.8	.2	67.0			QL=6 ST=2 TYP=5
	410	LEAR	8	S	0817.8	0817.8	.2	18.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0840.1	0840.1	.2	6.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0840.1	0840.1	.2	26.0			QL=6 ST=2 TYP=3
	204	IZMI	4	S/F	0856.2	0856.5	.4	100.0	50.0		
	410	LEAR	8	S	0902.1	0902.1	.2	31.0			QL=6 ST=2 TYP=3
	430	KRAK	42	SER	0933.5	0936.5	15.0	26.0			
	430	KRAK	2	S/F	1039.5	1040.0	.7	7.0	2.0		
	234	POTS	4	S/F	1059.0	1059.1	.5	100.0	20.0		
	234	POTS	4	S/F	1117.0	1117.2	.5	110.0	5.0		
	2800	OTTA	20	GRF	1503.0	1508.0	17.0	2.6	1.0		
	2800	OTTA	20	GRF	1805.0	1810.0	20.0	2.0	1.0		
	610	PALE	8	S	1849.8	1850.1	.5	21.0			QL=6 ST=2 TYP=3
	2800	OTTA	1	S	1911.5	1916.0	4.5D	2.4	.8		
	3750	TYKW	20	GRF	2323.0	0013.0	120.0	2.0	1.0		
	15400	LEAR	8	S	2340.3	2340.8	.5	13.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	2340.5	2340.6	.3	11.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	2340.5	2340.6	.3	11.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	2340.6	2340.8	.4	11.0			QL=6 ST=2 TYP=3
25	245	PALE	43	NS	1638.0	1849.3	695.0D	25.0			QL=6 ST=2 TYP=1
	100	HIRA	44	NS	1956.0E	2218.0	780.0D	130.0	45.0		
	200	HIRA	43	NS	2045.0	0235.0	750.0D	10.0	5.0		ML
	245	LEAR	43	NS	2257.0	0741.5	649.0D	28.0			QL=6 ST=2 TYP=1
	1000	TYKW	28	PRE	0345.0	0356.0	45.0	2.0	1.0		
	2000	TYKW	28	PRE	0345.0	0356.0	45.0	4.0	2.5		
	3750	TYKW	28	PRE	0345.0	0357.0	45.0	6.0	3.5		
	9400	TYKW	28	PRE	0345.0	0358.0	45.0	7.0	3.0		
	1000	TYKW	45	C	0346.0	0346.1	1.0	4.0	1.0		
	1415	PALE	8	S	0346.0	0346.1	.6	18.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	0346.1	0346.3	.5	65.0			QL=6 ST=2 TYP=5
	410	PALE	47	GB	0346.1	0346.5	.5	95.0			QL=6 ST=2 TYP=5
	2000	TYKW	45	C	0353.0	0353.6	1.0	15.0	3.0		
	2950	GORK	21	GRF	0409.0E	0438.2	356.0D	20.0			
	3653	YUNN	45	C	0423.2	0432.6	19.8	53.0			
	9400	TYKW	45	C	0430.0	0433.2	10.0	21.0	12.0		
	2000	TYKW	45	C	0430.0	0433.3	12.0	35.0	17.0		
	3750	TYKW	45	C	0430.0	0433.3	12.0	43.0	17.0		
	9395	PEKG	45	C	0430.0	0433.5	10.0D	23.0	11.8		
	2840	PEKG	45	C	0430.0	0433.5	14.0	42.6	28.7		
	1000	TYKW	45	C	0430.0	0450.1	20.1U	35.0	10.0		
	950	GORK	21	GRF	0430.0	0442.0	147.0	6.0			
	650	GORK	21	GRF	0430.0	0459.0	137.2	4.0			
	9100	GORK	20	GRF	0430.2	0433.0	201.0	16.0			
	1415	LEAR	47	GB	0430.5	0435.0	11.3	30.0			QL=6 ST=2 TYP=5
	8800	ATHN	4	S/F	0431.0	0432.3	5.0	8.0			QL=5 ST=2 TYP=3
	1415	ATHN	4	S/F	0431.0	0436.3	8.5	32.0			QL=5 ST=2 TYP=3
	4995	ATHN	4	S/F	0431.3	0432.8	7.8	24.0			QL=5 ST=2 TYP=3
	2695	LEAR	4	S/F	0431.5	0433.3	8.1	42.0			QL=6 ST=2 TYP=3
	500	HIRA	42	SER	0431.6	0434.8	12.0	10.0			0
	4995	LEAR	4	S/F	0431.8	0433.1	7.0	27.0			QL=6 ST=2 TYP=3
	2950	GORK	45	C	0431.9	0433.3	6.0	30.0			
	950	GORK	46	C	0431.9	0436.4	10.0	28.0			
	2950	GORK			0431.9	0437.0		13.0			
	950	GORK			0431.9	0440.0		30.0			
	8800	LEAR	4	S/F	0432.0	0433.0	6.1	11.0			QL=6 ST=2 TYP=3
	2902	YUNN	45	C	0433.3	0437.7	13.7	58.0			
	610	LEAR	4	S/F	0434.6	0440.0	6.2	11.0			QL=6 ST=2 TYP=3
	650	GORK	46	C	0436.7	0437.0	4.0	14.0			
	650	GORK			0436.7	0438.5		23.0			
	650	GORK			0436.7	0440.0		11.0			
	9400	TYKW	30	PBI	0440.0		210.0	10.0	5.0		
	9395	PEKG	20	GRF	0440.0	0452.0	15.0	17.0	7.0		
	3750	TYKW	20	GRF	0442.0		240.0	10.0	5.0		
	2000	TYKW	30	PBI	0442.0		240.0	8.0	4.0		
	650	GORK	8	S	0442.0	0442.0	.2	18.0			
	2840	PEKG	20	GRF	0444.0	0447.0	16.0	4.6	2.9		

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
25	1000	TYKW	30	PBI	0445.0		200.0	3.0	1.5		
	9400	TYKW	20	GRF	0445.0	0455.0	100.0	3.0	1.5		
	2000	TYKW	20	GRF	0455.0	0600.0	180.0	2.0	1.0		
	3750	TYKW	21	GRF	0457.0	0604.0	220.0	6.0	3.0		
	2840	PEKG	31	ABS	0500.0	0503.0	6.0	5.5	2.1		
	9395	PEKG	31	ABS	0500.0	0503.0	6.0	17.0	8.8		
	245	LEAR	8	S	0606.1	0606.3	.2	3.0			QL=1 ST=3 TYP=3
	410	LEAR	8	S	0606.1	0606.3	.2	8.0			QL=1 ST=3 TYP=3
	245	LEAR	8	S	0628.6	0628.8	.2	8.0			QL=1 ST=3 TYP=3
	410	LEAR	8	S	0628.6	0628.8	.2	4.0			QL=1 ST=3 TYP=3
	3750	TYKW	20	GRF	0630.0	0720.0	110.0	6.0	3.0		
	1000	TYKW	5	S	0642.0	0643.0	2.0	5.0	1.5		
	245	LEAR	8	S	0650.3	0650.5	.3	4.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0650.3	0650.5	.3	8.0			QL=6 ST=2 TYP=3
	9400	TYKW	20	GRF	0700.0	0720.0	60.0	8.0	3.0		
	2695	LEAR	47	GB	0720.5	0720.6	.1	75.0			QL=5 ST=2 TYP=5
	410	LEAR	8	S	0720.5	0720.6	.1	47.0			QL=6 ST=2 TYP=3
	610	LEAR	8	S	0720.5	0720.6	.1	8.0			QL=6 ST=2 TYP=3
	8800	LEAR	47	GB	0720.5	0720.6	.1	84.0			QL=5 ST=2 TYP=5
	245	LEAR	8	S	0734.3	0734.3	.2	7.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0734.3	0734.3	.2	8.0			QL=1 ST=2 TYP=3
	100	HIRA	42	SER	0745.9	0747.0	9.6	145.0			
	410	LEAR	8	S	0818.1	0818.3	.2	25.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0901.5	0901.6	.3	30.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0923.0	0923.1	.3	17.0			QL=1 ST=2 TYP=3
	6100	KISV	1	S	1000.0	1001.5	2.0	5.0			
	260	ONDR	40	F	1150.0	1226.0	38.0	30.0			
	4995	SGMR	4	S/F	1311.1	1313.0	4.2	10.0			QL=6 ST=2 TYP=3
	4995	ATHN	4	S/F	1312.0	1312.6	4.5	4.0			QL=5 ST=3 TYP=3
	8800	ATHN	4	S/F	1312.0	1312.6	4.5	16.0			QL=5 ST=3 TYP=3
	8800	SGMR	4	S/F	1312.5	1312.8	2.1	18.0			QL=6 ST=2 TYP=3
	2800	OTTA	2	S/F	1312.8	1313.0	1.0	2.0			
	2800	OTTA	2	S/F	1532.0	1532.3	1.0	6.8			
	2800	OTTA	23	GRF	1535.0	1615.0	75.0	5.2	2.0		
	2800	OTTA	1	S	1548.0	1550.0	7.0	2.8	1.0		
	930	BORD	46	C	1610.6	1611.2	2.8	62.0	5.0		
	2800	OTTA	240	R	1820.0	1840.0	20.0	2.8	1.9		
	2800	OTTA	240	R	1925.0	1940.0	15.0	2.6	1.1		
	3750	TYKW	45	C	2138.0	2142.0	7.0	10.0	4.0		
	9400	TYKW	45	C	2138.0	2142.2	15.0	12.0	5.0		
	2800	OTTA	21	GRF	2138.0	2152.0	30.0	2.8	1.4		
	2800	OTTA	1	S	2139.0	2142.5	6.0	3.8	1.8		
	3750	TYKW	30	PBI	2145.0		20.0	4.0	2.0		
	9400	TYKW	29	PBI	2153.0		40.0	4.0	2.0		
	3750	TYKW	5	S	2155.0	2157.0	8.0	2.0	0.7		
	3750	TYKW	5	S	2343.0	2345.0	15.0	1.5	0.5		
26	260	ONDR	44	NS	0600.0E		491.0D				
	127	TORN	43	NS	0750.0		189.0		2.0		V=0
	245	SGMR	43	NS	1007.0	1504.6	788.0D	80.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	1947.0E		810.0D		5.0U		WL
	208	VORO	44	NS	2200.0E		240.0D		6.0		
	245	LEAR	43	NS	2258.0	0538.5	647.0D	119.0			QL=6 ST=2 TYP=1
	410	LEAR	8	S	0005.3	0005.5	.3	10.0			QL=5 ST=2 TYP=3
	610	LEAR	8	S	0005.3	0005.5	.3	11.0			QL=5 ST=2 TYP=3
	3750	TYKW	45	C	0036.0	0037.6	6.0	4.0	1.5		
	3750	TYKW	5	S	0148.0	0149.0	2.5	1.5	0.5		
	9400	TYKW	20	GRF	0210.0	0215.0	35.0	3.0	1.5		
	3750	TYKW	21	GRF	0211.0	0215.0	35.0	2.0	1.0		
	3750	TYKW	5	S	0222.0	0225.0	10.0	2.0	0.7		
	3750	TYKW	21	GRF	0259.0	0308.0	30.0	3.0	1.5		
	9400	TYKW	21	GRF	0300.0	0309.0	60.0	4.0	2.0		
	2000	TYKW	20	GRF	0300.0	0313.0	30.0	2.0	1.0		
	15400	LEAR	4	S/F	0304.3	0312.3	15.8	21.0			QL=6 ST=2 TYP=3
	4995	LEAR	4	S/F	0305.8	0311.6	16.3	20.0			QL=6 ST=2 TYP=3
	3750	TYKW	45	C	0310.0	0311.7	15.0	6.0	1.5		
	9400	TYKW	45	C	0311.0	0311.7	15.0	15.0	4.0		
	8800	LEAR	4	S/F	0311.3	0311.6	9.3	17.0			QL=6 ST=2 TYP=3
	1000	TYKW	5	S	0336.7	0336.9	0.7	4.0	1.5		
	3750	TYKW	20	GRF	0342.0	0353.0	35.0	2.0	1.0		
	2000	TYKW	5	S	0343.0	0356.0	15.0	1.5	0.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
26	2000	TYKW	20	GRF	0440.0	0510.0	65.0	2.0	1.0		
	3750	TYKW	20	GRF	0445.0	0510.0	60.0	4.0	2.0		
	410	LEAR	8	S	0615.5	0615.6	.1	23.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0642.1	0642.3	.2	11.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0646.1	0646.3	.2	11.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0646.1	0646.3	.2	9.0			QL=6 ST=2 TYP=3
	6100	KISV	1	S	0656.8	0657.2	1.0	3.0			
	9100	GORK	1	S	0656.9	0657.2	.9	6.0	3.0		
	2902	YUNN	45	C	0708.7	0710.9	30.3	37.0			
	410	LEAR	8	S	0720.6	0720.8	.2	5.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0720.6	0720.8	.2	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0730.1	0730.1	.2	15.0			QL=6 ST=2 TYP=3
	245	LEAR	8	S	0730.1	0730.1	.2	6.0			QL=6 ST=2 TYP=3
	234	POTS	4	S/F	0741.7	0741.8	.3	125.0	15.0		
	245	LEAR	8	S	0751.8	0751.8	.2	7.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0751.8	0751.8	.2	27.0			QL=6 ST=2 TYP=3
	9500	POTS	29	PBI	0809.0	0811.5	26.0	21.0			
	3000	POTS	29	PBI	0809.0	0811.6	51.0	26.0			
	2000	TYKW	45	C	0809.0	0811.7	7.0	23.0	8.0		
	3750	TYKW	45	C	0809.0	0811.8	8.0	25.0	11.0		
	8800	ATHN	4	S/F	0809.3	0811.5	19.0	13.0			QL=5 ST=3 TYP=3
	9395	PEKG	45	C	0810.0	0811.6	13.0	23.0	5.5		
	9400	TYKW	45	C	0810.0	0811.6	6.0	22.0	9.0		
	2840	PEKG	45	C	0810.0	0811.8	16.0	35.6	15.7		
	1000	TYKW	45	C	0810.0	0814.5	7.0	21.0	6.0		
	11800	BERN	21	GRF	0810.0	0811.4	26.0	26.0			
	8400	BERN	21	GRF	0810.0	0811.5	26.0	37.0			
	2695	ATHN	4	S/F	0810.0	0811.6	16.3	28.0			QL=2 ST=3 TYP=3
	6100	KISV	45	C	0810.0	0811.7	6.0	21.0			
	3100	BERN	21	GRF	0810.0	0811.7	26.0	65.0			
	5200	BERN	21	GRF	0810.0	0811.7	26.0	36.0			
	1470	POTS	29	PBI	0810.0	0811.8	50.0	22.0			
	260	ONDR	46	C	0810.0	0812.0	12.0	212.0U			
	536	ONDR	42	SER	0810.0	0812.0	10.0	20.0			
	6100	KISV			0810.0	0814.3		15.0			
	808	ONDR	45	C	0810.0	0814.5	10.0	25.0			
	1415	ATHN	4	S/F	0810.1	0811.6	7.5	24.0			QL=5 ST=3 TYP=3
	2950	GORK	21	GRF	0810.2	0815.4	26.5	6.5			
	4995	ATHN	4	S/F	0810.3	0811.6	18.0	29.0			QL=5 ST=3 TYP=3
	9100	GORK	20	GRF	0810.4	0811.5	20.0	20.0			
	3100	CRIM	3	S	0810.5	0811.9	5.0	27.0	9.0		
	234	POTS	4	S/F	0810.6	0811.6	2.4	470.0	8.0		III/V
	810	KRAK	2	S/F	0810.7	0811.7	2.5	15.0	6.0		
	245	LEAR	47	GB	0810.8	0811.5	3.8	470.0			QL=6 ST=2 TYP=5
	410	LEAR	4	S/F	0810.8	0811.6	3.5	46.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0810.8	0811.8	4.2	47.0			QL=6 ST=2 TYP=3
	930	BORD	46	C	0810.8	0814.5	5.0	34.0	4.0		
	950	GORK	45	C	0810.9	0811.7	5.3	29.0			
	2950	GORK	4	S/F	0810.9	0811.7	4.5	19.4			
	950	GORK			0810.9	0814.4		37.0			
	4995	LEAR	4	S/F	0811.0	0811.5	6.6	31.0			QL=6 ST=2 TYP=3
	8800	LEAR	4	S/F	0811.0	0811.5	6.6	24.0			QL=6 ST=2 TYP=3
	430	KRAK	4	S/F	0811.0	0811.5	2.0	63.0	9.0		
	2695	LEAR	4	S/F	0811.0	0811.6	6.6	30.0			QL=6 ST=2 TYP=3
	1415	LEAR	4	S/F	0811.0	0811.6	6.3	33.0			QL=6 ST=2 TYP=3
	204	IZMI	41	F	0811.0	0811.7	4.0	230.0			
	200	HIRA	46	C	0811.0	0811.7	2.1	170.0	65.0		0
	650	GORK	46	C	0811.0	0811.9	5.7	51.0			
	3000	IZMI	5	S	0811.0	0812.0	2.5	16.0	8.0		
	650	GORK			0811.0	0814.4		13.0			
	127	TORN	7	C	0811.1	0812.4	2.3	1200.0	220.0		
	29	UPIC	46	C	0811.2	0811.9	9.0				
	113	POTS	4	S/F	0811.3	0811.7	2.9	1000.0	15.0		III/V
	33	UPIC	46	C	0811.4	0811.9	9.0				
	15400	LEAR	4	S/F	0812.1	0813.0	5.2	9.0			QL=6 ST=2 TYP=3
	810	KRAK	2	S/F	0813.7	0814.3	1.5	15.0	3.0		
	3100	CRIM	29	PBI	0815.5	0815.5	16.0	7.0	2.0		
	2000	TYKW	29	PBI	0816.0		20.0	4.0	2.0		
	9400	TYKW	29	PBI	0816.0		10.0	6.0	3.0		
	6100	KISV	29	PBI	0816.0	0816.0	40.0U	5.0			
	3750	TYKW	29	PBI	0817.0		25.0	8.0	4.0		

SOLAR RADIO EMISSION
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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
26	810	KRAK	7	C	0819.0	0819.5	1.0	6.0	3.0		
	1415	LEAR	8	S	0829.6	0829.8	.4	10.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0829.6	0829.8	.4	17.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0829.6	0829.8	.4	11.0			QL=6 ST=2 TYP=3
	4995	LEAR	8	S	0829.6	0829.8	.4	17.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0831.8	0832.0	.4	56.0			
	430	KRAK	8	S	0850.2	0850.3	.3	180.0			
	3100	CRIM	26	FAL	0852.0	1020.0		5.0			
	410	LEAR	8	S	0857.5	0857.6	.3	30.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0921.5	0921.5	.1	10.0			
	410	LEAR	8	S	0940.0	0940.1	.1	15.0			QL=6 ST=2 TYP=3
	430	KRAK	8	S	0952.0	0952.3	.3	46.0			
	3000	POTS	20	GRF	1139.5	1141.8	5.5	5.0			
	1470	POTS	4	S/F	1140.0	1140.5	3.0	6.0			
	930	BORD	46	C	1140.0	1140.6	2.6	74.0	6.0		
	1470	POTS			1140.0	1140.9					
	9500	POTS	20	GRF	1140.0	1141.6	9.0	8.5			
	2800	OTTA	1	S	1140.0	1142.0	4.0	2.0	1.0		
	810	KRAK	7	C	1140.0	1140.5	2.3	6.0	2.0		
	808	ONDR	46	C	1140.0	1141.0	2.5	45.0			
	9100	GORK			1157.0		3.6D				
	430	KRAK	27	RF	1206.0	1212.0	24.5	11.0	6.0		
	234	POTS	4	S/F	1223.4	1223.5	.1	300.0	75.0		
	234	POTS	8	S	1350.7	1350.8	.7	140.0	45.0		
	234	POTS	4	S/F	1421.3	1421.4	.1	400.0	20.0		
	930	BORD	8	S	1555.0	1555.0	.1	16.0	1.0		
	245	PALE	8	S	1714.1	1714.3	.4	40.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	1718.8	1719.1	.3	67.0			QL=6 ST=2 TYP=5
	245	PALE	8	S	1721.3	1721.5	.3	41.0			QL=6 ST=2 TYP=3
	2800	OTTA	20	GRF	1755.0	1810.0	50.0	2.4	1.2		
	3750	TYKW	28	PRE	2331.0	2336.0	5.0	3.0	1.5		
	2000	TYKW	28	PRE	2331.0	2336.0	5.0	3.0	1.5		
	610	LEAR	8	S	2332.3	2333.8	2.0	9.0			QL=6 ST=2 TYP=3
	500	HIRA	46	C	2332.6	2337.0	9.0	75.0	20.0		WLWR
	1000	TYKW	45	C	2333.0	2333.7	1.5	9.0	2.0		
	245	LEAR	47	GB	2333.8E	2333.8	.5D	80.0			QL=6 ST=3 TYP=5
	8800	LEAR	4	S/F	2335.6	2337.6	3.2	47.0			QL=6 ST=2 TYP=3
	9400	TYKW	5	S	2336.0	2337.6	3.0	32.0	7.0		
	2695	PENT	3	S	2336.0	2337.7	4.0	82.0	20.4		
	3750	TYKW	5	S	2336.0	2337.7	4.0	99.0	20.0		
	2000	TYKW	5	S	2336.0	2337.8	4.0	63.0	18.0		
	410	LEAR	49	GB	2336.0	2337.6	2.6	640.0			QL=6 ST=2 TYP=6
	610	LEAR	47	GB	2336.1	2337.1	3.5	79.0			QL=6 ST=2 TYP=5
	410	PALE	49	GB	2336.1	2337.6	2.2	1699.0			QL=6 ST=2 TYP=6
	610	PALE	47	GB	2336.5	2337.1	2.6	119.0			QL=6 ST=2 TYP=5
	2695	LEAR	47	GB	2336.5	2337.6	3.3	93.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	2336.5	2337.6	3.1	130.0			QL=6 ST=2 TYP=5
	1000	TYKW	45	C	2336.5	2337.8	9.0	61.0	10.0		
	4995	PALE	47	GB	2336.8	2337.6	1.3	110.0			QL=6 ST=2 TYP=5
	1415	LEAR	47	GB	2336.8	2337.8	2.8	67.0			QL=6 ST=2 TYP=5
	15400	LEAR	8	S	2336.8	2337.8	1.5	16.0			QL=6 ST=2 TYP=3
	1415	PALE	47	GB	2337.1	2337.8	1.5	55.0			QL=6 ST=2 TYP=5
	245	LEAR	47	GB	2337.1	2337.8	2.2	200.0			QL=6 ST=2 TYP=5
	8800	PALE	8	S	2337.5	2337.6	.3	25.0			QL=6 ST=2 TYP=3
	245	PALE	47	GB	2337.6	2338.0	.7	210.0			QL=6 ST=2 TYP=5
	9400	TYKW	30	PBI	2339.0		60.0	4.0	2.0		
	2000	TYKW	29	PBI	2340.0		12.0	3.0	1.5		
	3750	TYKW	29	PBI	2340.0		15.0	5.0	2.0		
	4995	LEAR	4	S/F	2359.5	0001.1	2.6	10.0			QL=5 ST=2 TYP=3
	15400	LEAR	4	S/F	2359.6	0001.0	2.5	33.0			QL=5 ST=2 TYP=3
	8800	LEAR	4	S/F	2359.6	0001.1	2.5	13.0			QL=5 ST=2 TYP=3
27	260	ONDR	44	NS	0555.0E		488.0D				
	127	TORN	43	NS	0956.0		120.0U				V=0
	245	PALE	43	NS	1646.0	2214.3	695.0D	139.0			QL=6 ST=2 TYP=1
	245	SGMR	43	NS	2136.0	2233.8	100.0D	119.0			QL=6 ST=2 TYP=1
	200	HIRA	43	NS	2143.0	2319.0	310.0	15.0	5.0		WL
	208	VORO	44	NS	2200.0E		240.0D		2.0		
	245	LEAR	43	NS	2258.0	0431.1	647.0D	119.0			QL=6 ST=2 TYP=1
	2695	LEAR	8	S	0000.8	0001.1	1.3	9.0			QL=6 ST=3 TYP=3
	245	LEAR	8	S	0001.0E	0001.1	.5D	18.0			QL=6 ST=3 TYP=3

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
27	3750	TYKW	5	S	0005.5	0006.4	2.5	1.5	0.5		
	3750	TYKW	5	S	0013.5	0014.1	1.5	11.0	3.0		
	9400	TYKW	5	S	0013.5	0014.2	4.0	10.0	2.5		
	2695	PENT	8	S	0014.0	0014.1	.5	8.2	3.0		
	3750	TYKW	29	PBI	0015.0		20.0	1.5	0.7		
	3750	TYKW	21	GRF	0105.0	0130.0	80.0	2.0	1.0		
	9400	TYKW	5	S	0122.0	0122.6	3.0	3.0	1.0		
	3750	TYKW	45	C	0202.0	0213.3	18.0	5.0	2.0		
	2000	TYKW	45	C	0203.0	0213.0	15.0	2.0	0.7		
	245	PALE	47	GB	0212.6	0213.3	1.0	97.0			QL=6 ST=2 TYP=5
	2840	PEKG	45	C	0251.0	0254.2	7.0	103.0	25.0		
	3750	TYKW	45	C	0252.0	0254.2	7.0	81.0	17.0		
	2000	TYKW	45	C	0252.0	0254.3	7.0	64.0	12.0D		
	2695	LEAR	47	GB	0252.3	0254.1	9.3	78.0			QL=6 ST=2 TYP=5
	4995	LEAR	47	GB	0252.8	0254.1	8.0	76.0			QL=6 ST=2 TYP=5
	1000	TYKW	45	C	0253.0	0254.8U	6.0	31.0	6.0D		
	9395	PEKG	45	C	0253.0	0254.8	10.0	148.0	50.1		
	1415	LEAR	47	GB	0253.0	0254.1	5.8	74.0			QL=6 ST=2 TYP=5
	15400	LEAR	47	GB	0253.0	0254.8	11.0	130.0			QL=6 ST=2 TYP=5
	8800	LEAR	47	GB	0253.1	0254.8	9.0	160.0			QL=6 ST=2 TYP=5
	9400	TYKW	45	C	0253.5E	0254.9	8.5D	155.0	35.0D		
	1415	PALE	47	GB	0253.6	0254.1	1.7	62.0			QL=6 ST=2 TYP=5
	610	LEAR	4	S/F	0253.8	0254.8	3.0	6.0			QL=6 ST=2 TYP=3
	4995	PALE	4	S/F	0253.8	0254.8	4.0	46.0			QL=6 ST=2 TYP=3
	35000	NAGO	21	GRF	0254.0	0257.0	5.0	65.0			
	15400	PALE	47	GB	0254.0	0254.8	4.0	119.0			QL=6 ST=2 TYP=5
	8800	PALE	47	GB	0254.3	0254.8	2.3	83.0			QL=6 ST=2 TYP=5
	35000	NAGO	5	S	0255.0	0256.0	1.0	50.0			
	2840	PEKG	29	PBI	0258.0		70.0	10.3	4.8		
	2000	TYKW	29	PBI	0259.0		65.0	4.0	2.0		
	3750	TYKW	30	PBI	0259.0		70.0	6.0	3.0		
	1000	TYKW	29	PBI	0259.0		20.0	1.0	0.5		
	9400	TYKW	29	PBI	0302.0		55.0	4.0	2.0		
	3750	TYKW	5	S	0312.0	0314.2	12.0	2.0	0.7		
	3750	TYKW	5	S	0342.0	0345.0	10.0	2.0	1.0		
	2000	TYKW	20	GRF	0430.0	0515.0	120.0	2.0	1.0		
	3750	TYKW	21	GRF	0434.0	0540.0	180.0	3.0	1.5		
	6100	KISV	2	S/F	0602.2	0603.6	2.5	3.0			
	3750	TYKW	5	S	0612.5	0613.1	1.5	4.0	1.5		
	2950	GORK	1	S	0612.8	0613.1	1.6	3.8	1.9		
	2000	TYKW	20	GRF	0640.0	0649.0	40.0	3.0	1.5		
	2950	GORK	20	GRF	0643.9	0648.0	20.5	4.6	2.3		
	9400	TYKW	20	GRF	0645.0	0655.0	35.0	3.0	1.5		
	3750	TYKW	5	S	0646.0	0651.0	18.0	3.0	1.5		
	6100	KISV	21	GRF	0748.0	0801.4	18.0	4.0			
	9400	TYKW	5	S	0800.0	0801.3	3.0	6.0	2.0		
	9100	GORK	1	S	0801.0	0801.3	.8	8.0	4.0		
	6100	KISV	2	S/F	0823.7	0826.9	6.0	3.0			
	1470	POTS	2	S/F	0901.6	0902.5	2.4	5.0			
	2950	GORK	20	GRF	0902.0	0906.2	35.0	3.1	1.5		
	9100	GORK	1	S	0925.0	0925.9	6.2	10.0			
	6100	KISV	1	S	0925.1	0926.1	3.0	4.0			
	650	GORK	4	S/F	1048.5	1048.7	1.1	165.0			
	950	GORK	4	S/F	1048.5	1049.8	1.2	100.0			
	430	KRAK	42	SER	1143.2	1153.7	10.8	19.0			
	33	UPIC	45	C	1151.2	1152.0	1.8				
	29	UPIC	45	C	1151.3	1152.3	2.4				
	2950	GORK	20	GRF	1151.5	1154.0	9.0D	4.0			
	2800	OTTA	4	S/F	1349.0	1349.5	2.0	10.4	4.0		
	3000	POTS	2	S/F	1349.0	1349.6	3.0	14.0			
	1470	POTS	1	S	1349.3	1349.9	1.7	5.0			
	8800	ATHN	47	GB	1349.3	1355.3	10.0	50.0			QL=6 ST=2 TYP=5
	2695	ATHN	4	S/F	1349.3	1356.1	10.8	41.0			QL=2 ST=2 TYP=3
	930	BORD	8	S	1349.5	1349.6	.2	36.0	2.0		
	9500	POTS	2	S/F	1349.5	1350.0	2.5	10.0			
	8400	BERN	45	C	1349.5	1355.3	14.0	61.0			
	4995	ATHN	4	S/F	1349.5	1355.6	10.0	44.0			QL=6 ST=2 TYP=3
	3100	BERN	45	C	1349.5	1356.2	14.0	54.0			
	5200	BERN	45	C	1349.5	1356.2	14.0	54.0			
	1415	ATHN	4	S/F	1349.6	1356.1	11.2	46.0			QL=6 ST=2 TYP=3
	1470	POTS	3	S	1353.7	1356.4	10.0	56.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
27	930	BORD	46	C	1353.8	1354.6	6.0	390.0	8.0		
	2800	OTTA	46F	C	1354.0	1356.0	6.0	45.0	20.8		
	9500	POTS	4	S/F	1354.0	1354.4	9.0	39.0			
	808	ONDR	45	C	1354.0	1355.0	6.0	444.0			
	3000	POTS	4	S/F	1354.0	1356.2	6.0	46.0			
	410	SGMR	8	S	1354.6	1354.8	.5	37.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1354.8	1354.8	.3	119.0			QL=6 ST=2 TYP=5
	610	SGMR	47	GB	1354.8	1354.8	.3	100.0			QL=6 ST=2 TYP=5
	15400	SGMR	8	S	1354.8	1354.8	1.0	40.0			QL=6 ST=2 TYP=3
	2800	OTTA	31	ABS	1400.0	1435.0	70.0	-3.2	-1.6		
	245	SGMR	47	GB	1401.3	1401.5	.5	260.0			QL=6 ST=2 TYP=5
	2800	OTTA	20	GRF	1705.0	1720.0	40.0	2.8	1.4		
	2800	OTTA	20	GRF	1748.0	1810.0	70.0	2.8	1.4		
	2800	OTTA	20	GRF	2105.0	2125.0	40.0	2.8	1.4		
	2695	PENT	20	GRF	2205.0	2350.0	230.0D	11.0			
	3750	TYKW	21	GRF	2320.0	2356.0	180.0	7.0	3.0		
	9400	TYKW	20	GRF	2330.0	2346.0	100.0	7.0	3.5		
	2000	TYKW	21	GRF	2330.0	2355.0	160.0	4.0	2.0		
	1000	TYKW	21	GRF	2335.0	0040.0	160.0	2.0	1.0		
28	260	ONDR	44	NS	0550.0E		500.0D				
	245	SGMR	43	NS	1145.0	2039.6	693.0D	600.0			QL=6 ST=2 TYP=1
	245	PALE	43	NS	1715.0	0325.1	665.0D	150.0			QL=6 ST=2 TYP=1
	200	HIRA	44	NS	1946.0E	2152.0	310.0D	15.0	3.0		ML
	100	HIRA	43	NS	2112.0	2200.0	78.0	10.0	2.0		
	245	LEAR	43	NS	2258.0	0325.1	646.0D	210.0			QL=6 ST=2 TYP=1
	2000	TYKW	5	S	0010.0	0012.7	4.0	4.0	1.5		
	1415	LEAR	8	S	0011.3	0012.6	1.5	13.0			QL=6 ST=2 TYP=3
	1000	TYKW	45	C	0012.0	0012.7	2.5	5.0	1.5		
	3750	TYKW	5	S	0012.0	0012.9	2.5	4.0	1.5		
	2000	TYKW	29	PBI	0014.0		15.0	1.5	0.7		
	500	HIRA	42	SER	0024.1	0024.1	4.3	300.0			WL
	3750	TYKW	45	C	0047.0	0054.0	15.0	4.0	1.5		
	245	PALE	47	GB	0302.1	0302.6	.7	72.0			QL=6 ST=2 TYP=5
	245	PALE	47	GB	0305.8	0305.8	1.0	86.0			QL=6 ST=2 TYP=5
	3750	TYKW	20	GRF	0345.0	0440.0	145.0	4.0	2.0		
	2000	TYKW	20	GRF	0415.0	0450.0	120.0	2.0	1.0		
	9100	GORK	1	S	0621.3	0622.4	5.6	5.0			
	3750	TYKW	20	GRF	0633.0	0718.0	115.0	4.0	2.0		
	2000	TYKW	20	GRF	0633.0	0720.0	130.0	2.0	1.0		
	500	HIRA	7	C	0657.3	0658.0	2.0	19.0	7.0		ML
	430	KRAK	2	S/F	0657.5	0658.0	1.5	35.0	7.0		
	410	LEAR	4	S/F	0657.6	0657.6	2.5	20.0			QL=6 ST=2 TYP=3
	610	LEAR	4	S/F	0657.6	0657.8	2.5	11.0			QL=6 ST=2 TYP=3
	536	ONDR	46	C	0658.0	0658.0	3.0	10.0			
	430	KRAK	42	SER	0810.5	0820.2	46.5	51.0			
	1470	POTS	20	GRF	0921.0	1109.0	329.0	19.0			
	3000	POTS	20	GRF	0923.0	1406.5	327.0	34.0			
	430	KRAK	42	SER	0926.0	0945.0	19.0	17.0			
	3100	CRIM	21	GRF	0927.0	1040.0	213.0D	29.0	10.0		
	2950	GORK	21	GRF	0927.0	1054.0	153.0D	30.0			
	9500	POTS	20	GRF	0927.0	1140.0	303.0	26.0			
	650	GORK	21	GRF	0930.0	0958.5	151.0D	8.0			
	950	GORK	21	GRF	0930.0	1112.0	150.0D	11.0			
	9100	GORK	21	GRF	0931.2	1059.6	149.0D	30.0			
	1470	POTS	3	S	1015.8	1016.4	1.2	18.0			
	930	BORD	45	C	1048.0	1051.8	5.0	257.0	21.0		
	2950	GORK	46	C	1048.0	1048.8	4.2	250.0D			
	3000	POTS	4	S/F	1048.0	1048.8	4.5	645.0			
	808	ONDR	45	C	1048.0	1049.0	8.0	250.0			
	3000	IZMI	7	C	1048.0	1049.0	4.5	301.0	100.0		
	650	GORK	4	S/F	1048.0	1049.1	4.0	75.0			
	2695	ATHN	47	GB	1048.0	1049.1	5.3	340.0			QL=2 ST=3 TYP=5
	9500	POTS	29	PBI	1048.0	1049.4	4.5	111.0			
	2950	GORK			1048.0	1049.5		217.0			
	6100	KISV	4	S/F	1048.0	1049.5	4.5	240.0			
	810	KRAK	4	S/F	1048.0	1049.5	4.0	128.0	22.0		
	1470	POTS	4	S/F	1048.0	1049.5	5.0	280.0			
	810	KRAK			1048.0	1051.5		130.0			
	950	GORK	46	C	1048.1	1049.8	4.0	204.0			
	950	GORK			1048.1	1051.9		156.0			

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
28	430	KRAK	4	S/F	1048.2	1049.5	4.5	160.0	30.0		
	430	KRAK			1048.2	1051.0		270.0			
	2695	SGMR	47	GB	1048.3	1048.8	3.8	360.0			QL=4 ST=1 TYP=5
	4995	SGMR	47	GB	1048.3	1049.1	11.3	370.0			QL=4 ST=1 TYP=5
	4995	ATHN	49	GB	1048.3	1049.3	5.0	580.0			QL=2 ST=3 TYP=6
	3100	CRIM	3	S	1048.3	1049.5	5.0	239.0	80.0		
	8800	ATHN	47	GB	1048.3	1049.6	5.0	119.0			QL=2 ST=3 TYP=5
	1415	ATHN	47	GB	1048.3	1049.8	5.0	350.0			QL=2 ST=3 TYP=5
	3100	BERN	4	S/F	1048.4	1049.0	120.0D	424.0			
	5200	BERN	4	S/F	1048.4	1049.2	120.0D	429.0			
	11800	BERN	4	S/F	1048.4	1049.4	120.0D	136.0			
	8400	BERN	4	S/F	1048.4	1049.6	120.0D	152.0			
	19600	BERN	4	S/F	1048.4	1049.6	120.0D	46.0			
	536	ONDR	46	C	1048.5	1048.5	8.0	52.0			
	9100	GORK	3	S	1048.5	1049.5	3.5	100.0			
	8800	SGMR	47	GB	1048.5	1049.6	9.1	119.0			QL=4 ST=1 TYP=5
	15400	SGMR	47	GB	1049.1	1049.5	1.2	80.0			QL=4 ST=1 TYP=5
	6100	KISV	29	PBI	1052.3	1052.3	32.0	18.0			
	430	KRAK	8	S	1056.5	1056.7	.3	29.0			
	810	KRAK	8	S	1057.0	1057.0	.2	6.0			
	9100	GORK	1	S	1109.0	1109.3	.6	7.0	3.5		
	2800	OTTA	21	GRF	1120.0E	1255.0	520.0D	27.6			
	2800	OTTA	1	S	1139.0	1140.5	4.0	5.6	1.9		
	6100	KISV	1	S	1139.2	1140.4	3.0	11.0			
	650	GORK	4	S/F	1139.8	1140.2	1.7	54.0			
	2950	GORK	1	S	1139.8	1140.3	1.7	4.8			
	610	SGMR	47	GB	1139.8	1140.3	1.0	58.0			QL=6 ST=2 TYP=5
	410	SGMR	47	GB	1139.8	1140.6	1.5	320.0			QL=6 ST=2 TYP=5
	536	ONDR	46	C	1140.0	1140.0	2.0	15.0			
	1470	POTS	4	S/F	1140.0	1140.5	2.5	25.0			
	9100	GORK	1	S	1140.1	1140.3	.6	5.0			
	950	GORK	1	S	1140.2	1140.6	2.0	3.0			
	234	POTS	4	S/F	1140.2	1140.7	.9	250.0	10.0		
	1415	SGMR	8	S	1140.3	1140.6	.5	16.0			QL=6 ST=2 TYP=3
	245	SGMR	47	GB	1140.3	1140.8	1.0	150.0			QL=6 ST=2 TYP=5
	430	KRAK	4	S/F	1140.5E	1140.5	1.0D	490.0D	15.0		
	810	KRAK	1	S	1141.0E	1141.0	1.0D	4.0	2.0		
	2800	OTTA	20	GRF	1540.0	1545.0	40.0	5.6	2.8		
	2800	OTTA	22	GRF	1830.0	1840.0	55.0	8.4	3.0		
	245	SGMR	47	GB	1913.8	1916.5	3.0	440.0			QL=6 ST=2 TYP=5
	245	SGMR	49	GB	2014.6	2016.3	6.0	840.0			QL=6 ST=2 TYP=6
	2800	OTTA	22	GRF	2115.0	2118.0	15.0	2.2	1.0		
	3750	TYKW	5	S	2117.5	2118.7	20.0	3.0	1.0		
	2000	TYKW	5	S	2118.0	2118.6	8.0	3.0	1.0		
	500	HIRA	22	GRF	2134.0	2206.2	93.0	8.0	3.0		SL
	2800	OTTA	21	GRF	2200.0	2220.0	160.0	4.8	2.0		
	1000	TYKW	21	GRF	2200.0	2235.0	180.0	3.0	1.5		
	3750	TYKW	21	GRF	2205.0	2223.0	100.0	3.0	1.5		
	2000	TYKW	21	GRF	2205.0	2230.0	155.0	4.0	2.0		
	1000	TYKW	45	C	2205.5	2207.0	4.5	15.0	2.0		
	3750	TYKW	45	C	2206.0	2206.9	1.5	5.0	1.0		
	9400	TYKW	20	GRF	2206.0	2212.0	40.0	5.0	2.0		
	2000	TYKW	45	C	2206.5	2207.6	4.0	12.0	2.0		
	2800	OTTA	40	F	2207.0	2207.0	1.8	9.4			
	3750	TYKW	45	C	2208.0	2208.4	0.8	37.0	6.0		
	2000	TYKW	45	C	2332.5	2333.2	2.0	8.0	1.0		
	1000	TYKW	45	C	2332.5	2334.2	2.5	3.0	0.7		
29	260	ONDR	44	NS	0540.0E		507.0D				
	245	LEAR	44	NS	2259.0E	0006.3	201.3D	13.0			QL=6 ST=2 TYP=1
	3750	TYKW	20	GRF	0004.0	0020.0	35.0	1.5	0.7		
	3750	TYKW	5	S	0112.0	0116.0	17.0	1.5	0.7		
	3750	TYKW	5	S	0424.0	0427.0	11.0	1.5	0.7		
	500	HIRA	8	S	0548.0	0548.3	.3	9.0			WL
	610	LEAR	8	S	0548.1	0548.3	.5	8.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0548.1	0548.3	.4	23.0			QL=6 ST=2 TYP=3
	2000	TYKW	21	GRF	0615.0	0700.0	150.0	3.0	1.5		
	3750	TYKW	21	GRF	0615.0	0707.0	140.0	6.0	3.0		
	950	GORK	1	S	0632.2	0632.3	.5	1.0			
	3750	TYKW	5	S	0635.0	0635.5	3.0	8.0	2.0		
	1000	TYKW	5	S	0635.2	0635.4	0.5	1.5	0.5		

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Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10-22 W/m 2 Hz)	Flux Density Mean (10-22 W/m 2 Hz)	Int	Remarks
29	2000	TYKW	5	S	0635.2	0635.6	2.0	3.0	1.0		
	2950	GORK	1	S	0635.3	0635.6	1.2	6.3	1.6		
	3750	TYKW	5	S	0652.0	0654.0	10.0	2.5	1.0		
	2950	GORK	1	S	0652.8	0653.0	.5	12.6	6.0		
	650	GORK	2	S/F	0714.7	0715.2	.7	4.9			
	6100	KISV	21	GRF	1012.3	1017.3	31.0	14.0			
	3100	BERN	21	GRF	1013.0U	1016.6	20.9D	27.0			
	5200	BERN	21	GRF	1013.0U	1017.3	20.0D	41.0			
	3000	IZMI	5	S	1015.0	1017.0	5.0	16.0	8.0		
	810	KRAK	8	S	1057.5	1057.5	.1	7.0			
	930	BORD	8	S	1410.3	1410.4	.2	23.0	2.0		
	930	BORD	41	F	1422.2	1422.7	.6	25.0	2.0		
	2800	OTTA	20	GRF	1428.0	1430.0	20.0	2.2	1.0		
	2695	SGMR	4	S/F	1439.3	1440.3	22.7	28.0			QL=6 ST=2 TYP=3
	2695	SGMR	20	GRF	1502.0	1504.1	29.1	42.0			QL=6 ST=2 TYP=2
	4995	SGMR	8	S	1521.3	1521.5	.5	11.0			QL=6 ST=2 TYP=3
	930	BORD	41	F	1619.6	1619.7	.3	20.0	2.0		
	2800	OTTA	20	GRF	1800.0	1830.0	70.0	2.2	1.1		
	2800	OTTA	20	GRF	2015.0	2018.0	40.0	2.8	1.4		
	3750	TYKW	21	GRF	2140.0	2157.0	80.0	2.0	1.0		
	2000	TYKW	5	S	2200.0	2200.8	2.0	3.0	1.0		
	3750	TYKW	5	S	2200.5	2200.9	1.0	4.0	1.5		
	3750	TYKW	21	GRF	2342.0	0048.0	135.0	3.0	1.5		
	1000	TYKW	5	S	2354.4	2354.7	1.0	1.5	0.5		
30	245	LEAR	43	NS	0602.0	0809.6	221.0	42.0			QL=1 ST=2 TYP=1
	245	LEAR	43	NS	2358.3	0934.0	583.7D	130.0			QL=6 ST=2 TYP=1
	9400	TYKW	20	GRF	0040.0	0111.0	80.0	4.0	2.0		
	2000	TYKW	20	GRF	0054.0	0115.0	60.0	2.0	1.0		
	3750	TYKW	20	GRF	0054.0	0122.0	60.0	2.0	1.0		
	2000	TYKW	5	S	0207.0	0209.0	15.0	3.0	1.0		
	3750	TYKW	20	GRF	0207.0	0215.0	35.0	2.0	1.0		
	2000	TYKW	20	GRF	0248.0	0254.0U	45.0	3.0	1.5D		
	3750	TYKW	21	GRF	0248.0	0254.0	170.0	4.0	2.0		
	9400	TYKW	21	GRF	0334.0	0343.0	130.0	9.0	3.0		
	3750	TYKW	45	C	0334.0	0343.0	14.0	7.0	4.0		
	1000	TYKW	45	C	0335.0	0336.1	3.0	4.0	0.7		
	2000	TYKW	5	S	0335.0	0336.2	3.0	3.0	1.0		
	9400	TYKW	5	S	0335.5	0336.0	1.5	6.0	2.0		
	2000	TYKW	20	GRF	0338.0	0343.0	50.0	2.0	1.0		
	3750	TYKW	29	PBI	0348.0		105.0	4.0	2.0		
	9395	PEKG			0459.0						
	2840	PEKG	45	C	0500.0	0509.8	11.0	22.8	8.3		
	9400	TYKW	20	GRF	0504.0	0521.0	35.0	2.0	1.0		
	3750	TYKW	5	S	0607.0	0610.0	25.0	1.5	0.7		
	245	LEAR	8	S	0739.1	0739.1	.2	13.0			QL=6 ST=2 TYP=3
	410	LEAR	8	S	0739.1	0739.1	.2	18.0			QL=6 ST=2 TYP=3
	6100	KISV	28	PRE	0754.0E	0803.7	10.0D	5.0			
	2840	PEKG	45	C	0755.0	0815.8	26.0D	154.5	86.4		
	4995	LEAR	8	S	0757.6	0757.8	1.7	6.0			QL=6 ST=2 TYP=3
	8800	LEAR	8	S	0757.6	0757.8	1.7	10.0			QL=6 ST=2 TYP=3
	2695	LEAR	8	S	0757.6	0757.8	2.0	7.0			QL=6 ST=2 TYP=3
	1415	LEAR	8	S	0757.6	0757.8	2.0	6.0			QL=6 ST=2 TYP=3
	15400	LEAR	8	S	0757.6	0758.1	.7	20.0			QL=5 ST=2 TYP=3
	3750	TYKW	45	C	0800.0	0808.1	50.0	147.0	39.0		
	3750	TYKW			0800.0	0815.4		126.0			
	3000	POTS	45	C	0800.0	0816.0	180.0	94.0			
	5200	BERN	45	C	0800.0U	0807.0	120.0D	213.0			
	3100	BERN	45	C	0800.0U	0809.1	120.0D	211.0			
	2950	GORK	21	GRF	0800.0	0824.0	115.0D	32.0			
	245	LEAR	8	S	0801.6	0801.6	.2	8.0			QL=1 ST=2 TYP=3
	410	LEAR	8	S	0801.6	0801.6	.2	28.0			QL=1 ST=2 TYP=3
	950	GORK	21	GRF	0801.9	0824.0	108.0	7.5			
	1470	POTS	45	C	0802.0	0804.7	238.0	920.0			
	1000	TYKW	47	GB	0802.0	0808.8	30.0	930.0	60.0		
	2000	TYKW			0802.0	0809.3		63.0			
	9400	TYKW	45	C	0802.0	0815.4	40.0D	60.0	35.0D		
	1000	TYKW			0802.0	0817.6		23.0			
	2000	TYKW	45	C	0802.0	0818.0	30.0	105.0	27.0		
	9100	GORK	21	GRF	0802.1	0832.0	118.0D	40.0			
	2695	ATHN	47	GB	0802.5	0809.3	57.5	100.0			QL=6 ST=3 TYP=5

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

APRIL 1983

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
30	9500	POTS	20	GRF	0802.5	0828.5	238.0	50.0			
	2695	LEAR	47	GB	0802.6	0806.0	13.5	44.0			QL=6 ST=2 TYP=5
	4995	ATHN	47	GB	0802.6	0808.6	57.4	119.0			QL=6 ST=3 TYP=5
	810	KRAK			0802.8	0805.2		250.0			
	810	KRAK			0802.8	0805.4		250.0			
	810	KRAK	46	C	0802.8	0807.3	6.5	240.0	20.0		
	930	BORD	46	C	0803.0	0805.7	17.0	847.0U	9.0		
	9395	PEKG	45	C	0803.0	0815.4	37.0D	55.2	25.6		
	808	ONDR			0803.0	0804.0	8.0	600.0			
	1415	LEAR	49	GB	0803.0	0804.1	13.1	5400.0			QL=5 ST=2 TYP=6
	950	GORK	46	C	0803.0	0804.8	16.8	87.0			
	950	GORK			0803.0	0805.5		131.0			
	950	GORK			0803.0	0807.4		56.0			
	3000	IZMI	5	S	0803.0	0808.0	8.0	122.0	50.0		
	1415	ATHN	49	GB	0803.3	0804.5	28.2	7300.0			QL=5 ST=3 TYP=6
	8800	ATHN	4	S/F	0803.6	0815.3	56.4	51.0			QL=6 ST=3 TYP=3
	6100	KISV	46	C	0803.7	0806.0	16.0	97.0			
	6100	KISV			0803.7	0807.8		72.0			
	2950	GORK	46	C	0803.7	0808.1	15.9	83.0			
	6100	KISV			0803.7	0808.6		47.0			
	2950	GORK			0803.7	0814.0		79.0			
	6100	KISV			0803.7	0814.7		60.0			
	6100	KISV			0803.7	0815.3		72.0			
	8800	LEAR	8	S	0803.8	0804.3	.8	17.0			QL=6 ST=2 TYP=3
	4995	LEAR	47	GB	0803.8	0806.0	12.3	29.0			QL=6 ST=2 TYP=5
	650	GORK	21	GRF	0803.8	0825.6	37.0	3.3			
	8400	BERN	45	C	0805.0	0815.2	120.0D	90.0			
	11800	BERN	45	C	0805.0	0832.1	120.0D	65.0			
	19600	BERN	45	C	0805.0	0845.2	120.0D	55.0			
	650	GORK	4	S/F	0805.5	0806.0	.8	7.9			
	15400	LEAR	4	S/F	0806.8	0807.0	2.5	26.0			QL=6 ST=2 TYP=3
	9100	GORK	2	S/F	0806.9	0809.1	3.0	20.0			
	260	ONDR	40	F	0810.0	0818.0	20.0	18.0			
	810	KRAK	42	SER	0812.5	0814.3	1.7	7.0			
	430	KRAK	42	SER	0812.5	0815.0	12.5	34.0			
	9100	GORK	2	S/F	0813.4	0815.2	4.9	28.0			
	3000	IZMI	7	C	0813.4	0815.5	6.8	100.0	50.0		
	410	LEAR	8	S	0814.8	0815.0	1.3	21.0			QL=6 ST=2 TYP=3
	6100	KISV	29	PBI	0819.7	0820.0	120.0	30.0			
	6100	KISV	20	GRF	0821.0	0828.5	16.0	7.0			
	204	IZMI	5	S	0825.5	0825.7	1.0	44.0	20.0		
	2000	TYKW	30	PBI	0832.0		30.0D	15.0	10.0D		
	1000	TYKW	29	PBI	0832.0		4.0D	3.0	3.0D		
	3750	TYKW	29	PBI	0850.0		10.0D	22.0	20.0D		
	2000	TYKW	5	S	0855.5	0856.0	1.0	9.0	2.0		
	260	ONDR	40	F	1108.0	1120.0	44.0	9.0			
	2800	OTTA	20	GRF	1940.0	1945.0	40.0	2.4	1.2		
	3750	TYKW	20	GRF	2247.0	2300.0	35.0	2.0	1.0		
	245	LEAR	8	S	2318.0	2318.1	.1	13.0			QL=6 ST=2 TYP=3
	3750	TYKW	5	S	2343.0	2344.5	5.0	1.5	0.5		
	9400	TYKW	5	S	2343.5	2344.3	3.0	6.0	2.0		

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = IZMIRAN
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov

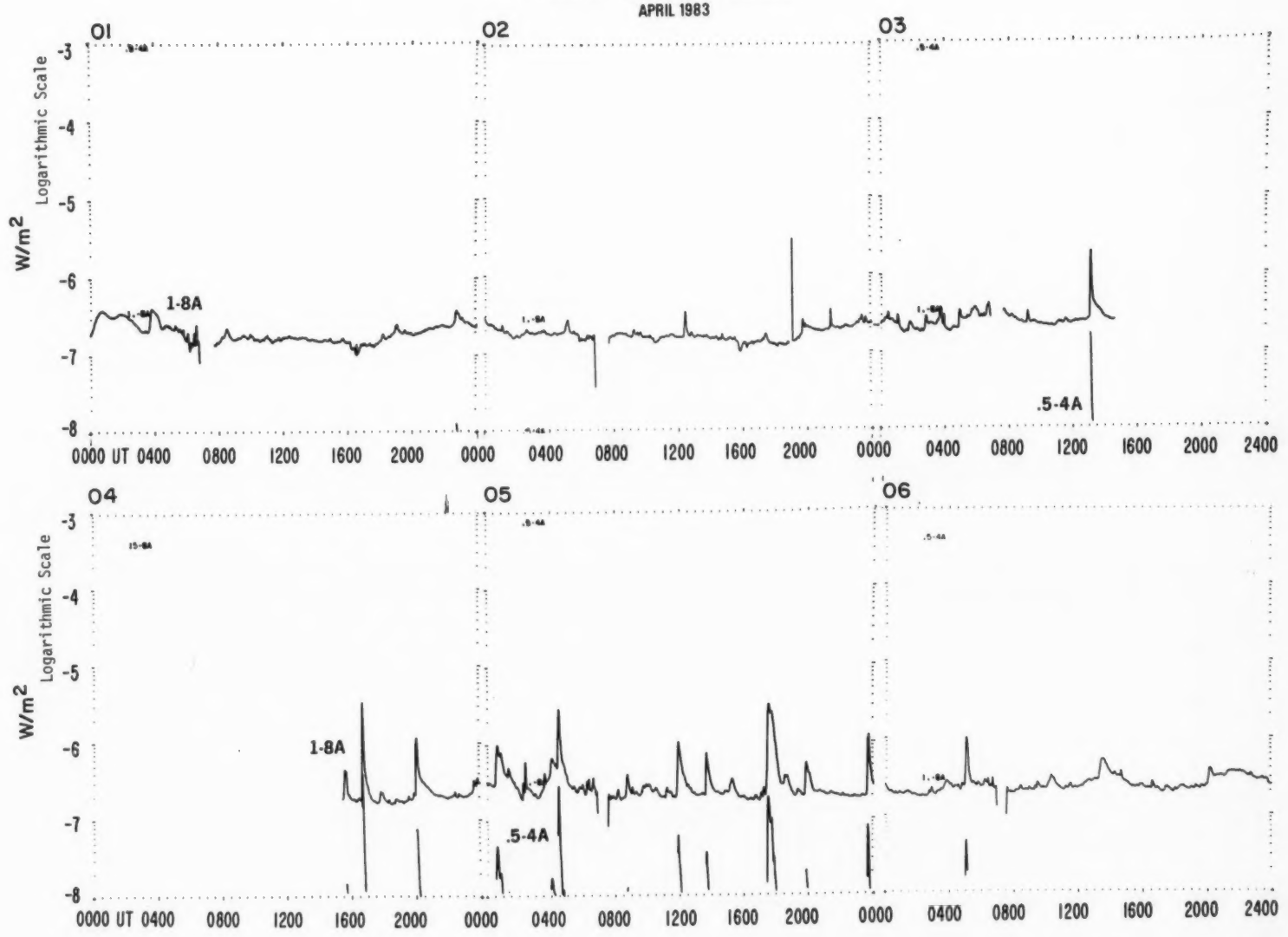
Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
33 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm In Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

1A Simple 1A
3A Simple 2A
21A Simple 3A GRF
2A Simple 1AF
4A Simple 2AF
240 Rise only
240F Rise only F
24P Post Rise
24PF Post Rise F
16A Fall A
260 Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A Post Burst Decrease A
32A Absorption A
46F Complex F

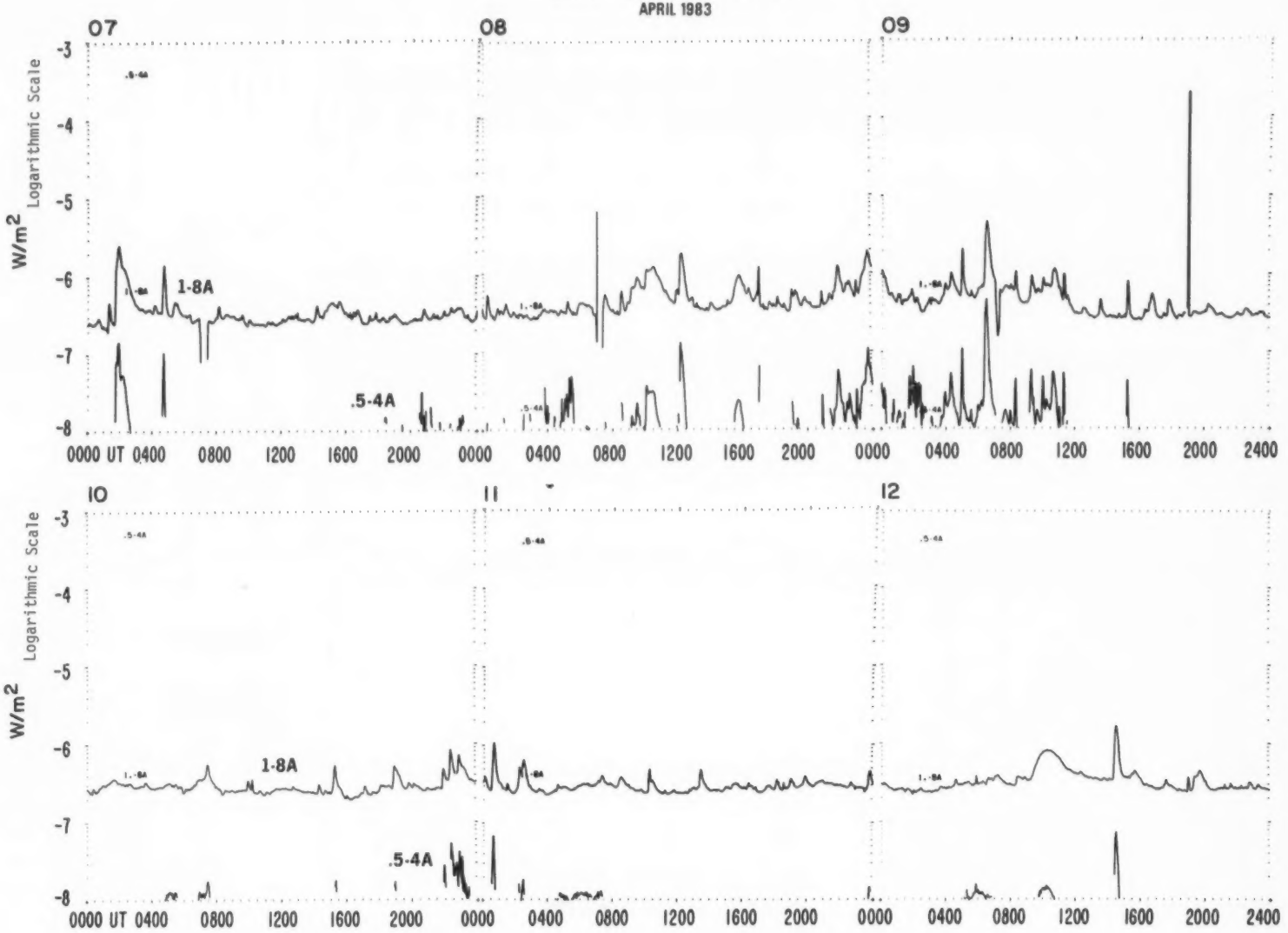
SMS-GOES X-RAYS

APRIL 1983



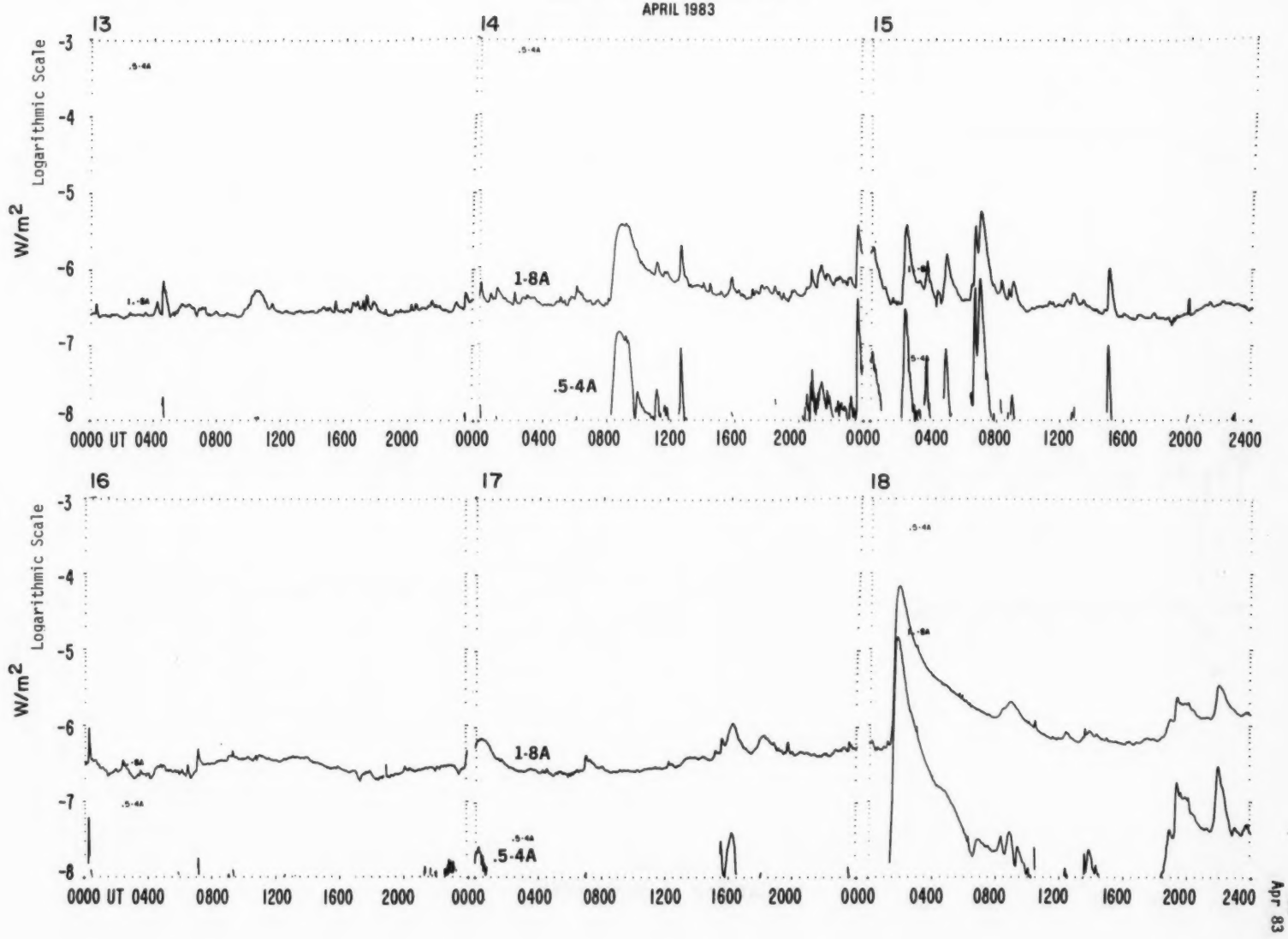
SMS-GOES X-RAYS

APRIL 1983



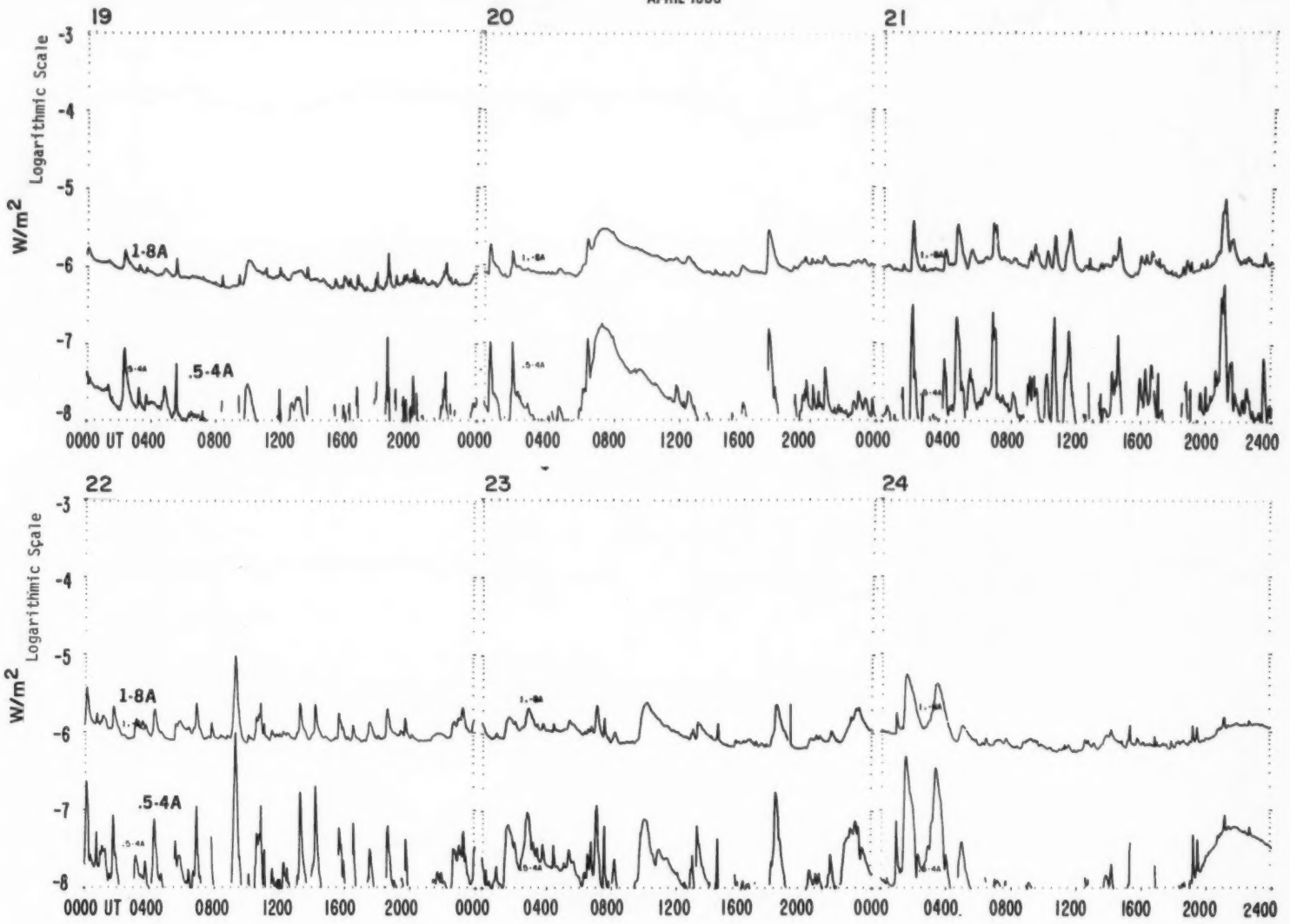
SMS-GOES X-RAYS

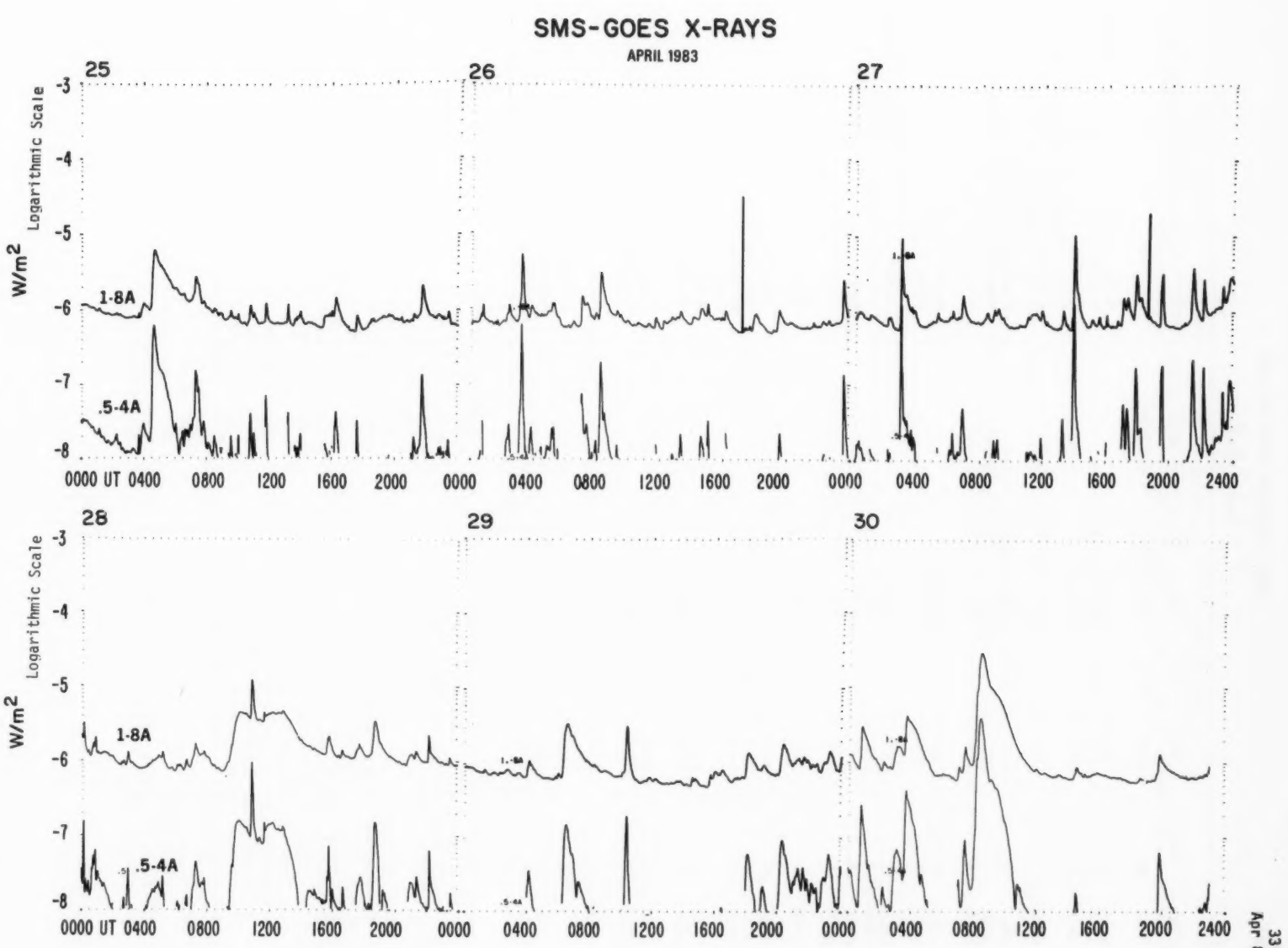
APRIL 1983



SMS-GOES X-RAYS

APRIL 1983




SMS-GOES X-RAYS
APRIL 1983
25
26
27
28
29
30
W/m2
Logarithmic Scale
-3
-4
-5
-6
-7
-8
1-8A
.5-4A
0000 UT 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400
33
Apr 83

MASS EJECTIONS FROM THE SUN

APRIL 1983

Sta	Day	Observed UT Start		Max	End		Location RA°	R/R_O	Freq or Wavelength	Kind of Event
ABST	08	0628		0635	0640		116	0.62	H-alpha	SP
CULG	09	0459.5			0503.5				Meter	II Herringbone
ABST	09	0501		0505	0517		114	0.18	H-alpha	SP
KHAR	09	0924	E		0955	D	100	1.00	H-alpha	S
KHAR	11	1030	E		1042	D	270	0.70	H-alpha	S
ABST	14	0432	E	442	0706	D	084	1.00	H-alpha	SP
GEOR	14	0825	E		0845		082	0.29-0.36	H-alpha	A?
KHAR	14	0912	E		0934	D	096	1.00	H-alpha	S
CULG	15	0207.0			0246.0				Meter	II
CULG	15	0224.5			0227.0				Meter	II
CULG	18	0133.0			0144.0				Meter	II Herringbone
CULG	18	0144.0			0210.0				Meter	IV
CULG	18	0158.5			0159.0				Meter	Possible II
GEOR	18	0724	E		0830	D	098	1	H-alpha	A?
CULG	20	0029.5			0030.0				Meter	Possible II
ABST	21	0440	E	704	0715	D	098	1.00	H-alpha	SP
ABST	21	0534	E	704	0715	D	280	1.00	H-alpha	Q
GEOR	21	0902	E		1018	D	254	1	H-alpha	Q?
KHAR	26	0803	E		0810	D	107	0.39	H-alpha	S
GEOR	26	0830	E		0900	D	262	1	H-alpha	Q?
KHAR	27	0840	E		0857	D	270	0.54	H-alpha	S
KHAR	27	0855	E		0955	D	088	0.61	H-alpha	S
CULG	28	2117.0			2227.0				Meter	II Intermittent
ABST	29	0551	E	634	0653	D	102	1.00	H-alpha	SP
GEOR	29	0630	E		0650		098	1	H-alpha	A?
KHAR	29	1032	E		1050	D	200	0.13	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES
D = event ended after tabulated time
E = event began before the tabulated time
U = uncertain time

TYPE OF EVENT
A = eruptive active region prominence
CB = coronal cloud bubble
D = coronal depletions
E = coronal enhancement
EL = coronal expanding loop
II = Type II radio burst
IVm = moving Type IV radio burst
Q = eruptive quiescent prominence
R = coronal ray or streamer
S = flare-surge if there is a known flare association
SP = flare-spray if there is a known flare association
* = movement may be caused by ionospheric refraction

REPORTING STATIONS
ABST = Abastumani
BIGB = Big Bear
BLEN = Bleien
CULG = Culgoora
DWIN = Dwingeloo
GEOR = Georgiana
HALE = Haleakala
HARV = Harvard (Fort Davis)
KHAR = Kharkov
LEAR = Learmonth
LVOV = Lvov
MANI = Manila
MITK = Mitaka
PALE = Palehua
SGMR = Sagamore Hill
TELV = Tel Aviv
VORO = Voroshilov
WEIS = Weissenau
WEND = Wendelstein
UDAI = Udaipur

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H - ALPHA S O L A R F L A R E S

DECEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90234	01	0010	0015 0022	0034	S11	E29	.518	17304	3.2	24	-F					EJ
VORO	01	0010	0015	0030	S10	E30	.527	17304	3.3	20	-F	C	0015	65	.8	EJ
YUNN	01	0015E	0022	0037	S12	E29	.523	17304	3.2	22D	-N	P		129	1.6	
235 YUNN	01	0018	0022	0033	N19	W38	.661	17294	28.2	15	-N	C		129	1.8	
GRP90236	01	0025+8	0032+3	0043	S08	E75	.967	17306	6.6	18	1F			100		DGJ
YUNN	01	0025	0032	0042	S09	E74	.963	17306	6.6	17	1N	C		80		
VORO	01	0032	0035	0045	S08	E75	.967	17306	6.6	13	1F	C	0035	108		DJ
MITK	01	0033	0035	0043	S08	E80	.985	17306	7.0	10	1F	C	0035	110		G
GRP90237	01	0310>9	0328+3	0350	N23	E13	.430	17298	2.1	40	-N					E
CULG	01	0310	0328	0356	N22	E14	.424	17298	2.2	46	-N	C	0328	80	.9	.
PURP	01	0322	0331	0344	N24	E13	.443	17298	2.1	22	-N	C				E
GRP90238	01	0420+3	0426+2 0437	0453	N19	W38	.661	17294	28.3	33	-N					E
MITK	01	0420	0426	0452	N19	W38	.661	17294	28.3	32	-N	C	0426			E
YUNN	01	0423	0428	0454	N20	W38	.666	17294	28.3	31	1N	C		321	4.5	
CULG	01	0436E	0437U	0453	N19	W38	.661	17294	28.3	17D	-N	P	0437	90	1.2	
GRP90239	01	0451+1	0454+0	0500	S10	E37	.621	17305	4.0	9	-N					
YUNN	01	0451D	0454	0500	S09	E37	.618	17305	4.0	9D	1N	P		241	3.2	
CULG	01	0452	0454	0456D	S11	E38	.638	17305	4.1	4D	-N	P	0454	80	1.0	
240 YUNN	01	0533	0543	0610	S11	E28	.504	17304	3.3	37	-N	C		80	1.0	
GRP90241	01	0557+5	0603+3	0621	N13	W13	.303	17295	30.3	24	-N					E
YUNN	01	0557D	0603	0615	N13	W13	.303	17295	30.3	18D	-N	P		96	1.0	
ABST	01	0601	0606	0636	N13	W13	.303	17295	30.3	35	1F	C	0605	262	2.8	E
MITK	01	0602	0606	0621	N13	W14	.316	17295	30.2	19	-N	C	0606			E
242 ABST	01	0622	0626	0651	N21	W39	.682	17294	28.3	29	?F	C	0626	244	3.5	EJ
IMP.1 NO : YUNN PURP MITK LEAR																
GRP90243	01	0624+3	0627+3 0645	0653	S12	E27	.496	17304	3.3	29	-B					EHJ
ABST	01	0624	0628	0710	S13	E27	.503	17304	3.3	46	1N	C	0628	253	3.0	EJ
LEAR	01	0626	0627	0630D	S11	E24	.449	17304	3.1	4D	-B	3 C		79		
PURP	01	0627	0630	0641	S12	E27	.496	17304	3.3	14	1B	C				
MITK	01	0627	0628	0644	S12	E28	.510	17304	3.4	17	-N	C	0628			E
ISTA	01	0630E		0659	S12	E27	.496	17304	3.3	29D	-B					H
YUNN	01	0643E	0645	0655	S12	E27	.496	17304	3.3	12D	1N	P		193	2.3	
GRP90244	01	0705>9	0716+5	0743	N15	W37	.631	17294	28.5	38	-N			110	1.4	J
YUNN	01	0705	0720	0730	N15	W37	.631	17294	28.5	25	-N	C		129	1.7	
ABST	01	0712	0716	0736	N14	W36	.615	17294	28.6	24	-N	C	0716	148	1.9	EJ
ABST	01	0714	0721	0756	N19	W39	.673	17294	28.4	42	-F	C	0721	79	1.1	DJ
LEAR	01	0715	0718	0720D	N13	W35	.598	17294	28.7	5D	-B	3 C		96		D
245 ABST	01	0841	0847	0904D	N13	W14	.316	17295	30.3	23D	-N	P	0847	166	1.8	EJ
246 ABST	01	0846	0850	0904	S06	E19	.345	17304	2.8	18	-F	P	0850	70	.8	DJ
GRP90247	01	1125>9	1137+1	1156	N14	W42	.689	17294	28.3	31	-N			70	1.0	E
HTPR	01	1125	1137	1200	N17	W49	.775	17294	27.8	35	-F	C	1137	20	.3	
HTPR	01	1126	1138	1155	N14	W40	.665	17294	28.5	29	-B	C	1138	60	.8	E
WEND	01	1135	1137	1152	N12	W39	.646	17294	28.6	17	-N	C	1137	56	.8	
248 HTPR	01	1231	1232	1239	N19	W38	.661	17292	28.7	8	-F	C	1232	30	.4	
GRP90249	01	1254+1	1259+4	1316	S11	E24	.449	17304	3.3	22	-F			30	.3	
WEND	01	1254	1259	1313	S12	E25	.469	17304	3.4	19	-F	C	1259	31	.4	
RAMY	01	1255	1303	1318	S11	E24	.449	17304	3.3	23	-F	3 C		28		
250 HTPR	01	1415	1420	1430	N24	E09	.418	17298	2.3	15	-N	C	1420	40	.4	E
GRP90251	01	1802+2	1806+0	1854	S13	E22	.436	17304	3.4	52	-N			170	1.9	
HOLL	01	1802	1806	1854	S13	E22	.436	17304	3.4	52	-N	3 C		136		
BIGB	01	1804	1806	1854	S13	E22	.436	17304	3.4	50	1N	3 C	1806	195	2.2	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90252	01	1839+2	1842+2	1911	N23	E07	.393	17298	2.3	32	-N						
HOLL	01	1839	1842	1912	N23	E09	.403	17298	2.5	33	-N	3	C		147		
BIGB	01	1841	1844	1910	N24	E06	.404	17298	2.2	29	-N	3	C	1842	60	.6	
GRP90253	01	1924+0	1931+6	1957	S11	E21	.407	17304	3.4	33	-B				150	1.6	D
HOLL	01	1924	1931	1958	S11	E20	.394	17304	3.3	34	-B	3	C		167		D
BIGB	01	1924	1937	1955	S12	E22	.429	17304	3.5	31	-B	3	C	1937	130	1.4	
254 BIGB	01	2335	2345	2345D	S13	E18	.385	17304	3.3	10D	-F	3	P	2345	160	1.7	
255 YUNN	02	0015E	0015	0040	S15	E17	.392	17304	3.3	25D	2N		P		482	5.3	
256 YUNN	02	0116	0125	0205	S33	W55	.881	17293	27.9	49	-N		C		32	.7	
257 YUNN	02	0135	0143	0203	N15	W45	.727	17294	28.7	28	-N		C		80	1.2	
258 PEKG	02	0210	0234	0250	S14	E13	.335	17304	3.1	40	?N		C	0234	378	4.1	UZ
			IMP.1 NO : YUNN PURP														
259 LEAR	02	0330	0336	0340	S09	E25	.450	17305	4.0	10	-F	3	C		21		
260 LEAR	02	0335	0338	0358	N25	E03	.413	17298	2.4	23	-F	3	C		69		
GRP90261	02	0423+1	0425+1	0436	N25	E01	.411	17298	2.3	13	-N						
PURP	02	0423	0426	0433	N25	E00	.410	17298	2.2	10	1N		C				
LEAR	02	0424	0425	0439	N25	E02	.411	17298	2.3	15	-N	3	C		66		
262 YUNN	02	0441	0443	0447	S08	W76	.971	17289	26.5	6	-F		C		48		
263 YUNN	02	0456	0507	0516	S12	E18	.374	17304	3.6	20	-F		C		48	.5	
264 LEAR	02	0519	0520	0525	N16	W54	.823	17294	28.2	6	-F	3	C		27		
GRP90265	02	0535+1	0627+7	0702	S13	E13	.323	17304	3.2	87	1N						EK
YUNN	02	0521	0629	0718	S14	E14	.346	17304	3.3	117	2N		C		562	6.3	EFK
PURP	02	0535	0627	0645	S13	E15	.330	17304	3.4	70	1N		P				
LEAR	02	0536	0628	0631D	S13	E13	.323	17304	3.2	55D	1B	4	C		456		
ATHN	02	0630E	0634	0906	S11	E12	.288	17304	3.2	156D	-N	3	V	0634	111	1.2	
ABST	02	0632E	0632	0646D	S15	E12	.338	17304	3.2	14D	-F		P	0632	175	1.9	BE
266 YUNN	02	0555	0603	0620	N21	W58	.866	17294	27.9	25	-N		C		16	.3	
267 YUNN	02	0638	0647	0652	N14	W58	.856	17294	27.9	14	-N		C		48	1.0	
268 YUNN	02	0711	0715	0720	N18	W56	.844	17294	28.1	9	-N		C		64	1.3	
269 CATA	02	0735	0740	0745	N15	W58	.857	17294	28.0	10	-F	2	C	0740	84	1.7	
270 CATA	02	0745	0750	0805	N13	W56	.837	17294	28.1	20	?F	2	C	0750	253	4.8	
			IMP.1 NO : YUNN														
GRP90271	02	0806+9	0815+1	0824	N16	W55	.832	17294	28.2	18	1F						E
LEAR	02	0806	0816	0823	N16	W55	.832	17294	28.2	17	-N	3	C		89		
ABST	02	0814E	0816	0822D	N16	W54	.823	17294	28.3	8D	1F		P	0816	131	2.4	E
CATA	02	0815	0815	0825	N17	W57	.851	17294	28.1	10	1F	2	C	0815	112	2.2	
272 YUNN	02	0854	0854	0859	S09	E23	.421	17305	4.1	5	-N		C		32	.4	
273 LEAR	02	1014	1014	1022	N19	W51	.800	17292	28.6	8	-F	3	C		25		
GRP90274	02	1044+2	1046+2	1102	S12	E11	.289	17304	3.3	18	-N				45	.5	EL
HTPR	02	1044	1047	1105	S12	E14	.324	17304	3.5	21	-B		C	1047	50	.5	E
KANZ	02	1046	1046	1102	S12	E11	.289	17304	3.3	16	-N	2					L
WEND	02	1046	1048	1059	S12	E11	.289	17304	3.3	13	-N		C	1048	38	.4	E
GRP90275	02	1115+5	1123>9	1216	S13	E11	.302	17304	3.3	61	1B				340	3.5	HKL
CATA	02	1045	1128	1220D	S13	E10	.292	17304	3.2	95D	1F	2	P	1128	393	4.2	H
HTPR	02	1115		1142D	S13	E14	.335	17304	3.5	27D	1B		C	1135	400	4.0	EK
WEND	02	1116	1133	1230D	S13	E11	.302	17304	3.3	74D	1B		C	1133	244	2.6	F
KANZ	02	1118	1130	1211	S13	E11	.302	17304	3.3	53	1B	3					L
ATHN	02	1120	1123	1212	S11	E12	.288	17304	3.4	52	-B	3	V	1123	159	1.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90276	02	1202+2	1204+3	1212	N16	W55	.832	17294	28.4	10	-F						
RAMY	02	1202	1207	1215	N17	W55	.834	17294	28.4	13	-F	3	C		24		
KANZ	02	1204	1204	1208	N16	W56	.841	17294	28.3	4	-F	3					
GRP90277	02	1235>9	1244+7	1330	S13	E09	.283	17304	3.2	55	1N				350	3.6	FHL
KANZ	02	1235	1247	1326	S13	E09	.283	17304	3.2	51	1N	*					L
WEND	02	1239	1251	1316D	S14	E09	.297	17304	3.2	37D	1N	*	C	1251	281	3.0	F
ATHN	02	1240E	1244	1334	S11	E12	.288	17304	3.4	54D	-B	*	V	1244	127	1.4	
CATA	02	1245	1250	1320D	S13	E10	.292	17304	3.3	35D	1F	*	P	1250	422	4.5	H
GRP90278	02	1237+2	1247+1	1252	N16	W60	.875	17294	28.0	15	-F						
RAMY	02	1237	1248	1252	N16	W60	.875	17294	28.0	15	-N	3	C		38		
KANZ	02	1239	1247	1251	N16	W61	.883	17294	28.0	12	-F	3					
GRP90279	02	1330>9	1342+4	1447	S14	E10	.306	17304	3.3	77	1B						DL
RAMY	02	1153E	1342	1447	S14	E07	.281	17304	3.0	174D	2B	*	C		581		D
KANZ	02	1330	1346	1406D	S14	E10	.306	17304	3.3	36D	1N	*					L
ATHN	02	1343	1346	1352D	S11	E10	.266	17304	3.3	9D	1B	*	V	1346	255	2.8	
280 HOLL	02	1658	1700	1741	N13	W32	.559	17295	30.3	43	-F	3	C		48		
GRP90281	02	1713+0	1718+3	1738	S10	E13	.290	17305	3.7	25	-F				90	.9	
BIGB	02	1713	1718	1737	S10	E14	.303	17305	3.8	24	-F	2	C	1718	130	1.4	
HOLL	02	1713	1721	1738	S10	E13	.290	17305	3.7	25	-F	3	C		64		
282 HOLL	02	1739	1753	1807	S15	E10	.319	17304	3.5	28	-F	3	C		34		
283 HOLL	02	1825	1826	1842	N12	W32	.554	17295	30.4	17	-F	3	C		26		
GRP90284	02	1825+2	1829 1923+0	1939	S15	E06	.290	17304	3.2	74	-N				140	1.5	
HOLL	02	1825	2000	2036	S12	E03	.227	17304	3.0	131	-N	3	C		139		
BIGB	02	1827	1829	1848	S15	E10	.319	17304	3.5	21	-F	2	C	1829	60	.6	
BIGB	02	1921	1923	1929	S16	E07	.311	17304	3.3	8	-N	2	C	1923	160	1.6	
RAMY	02	1921E	1923U	1939D	S15	E06	.290	17304	3.3	18D	-N	3	C		132		
285 HOLL	02	1933	1935	1943	N15	E07	.272	17301	3.3	10	-F	3	C		84		
GRP90286	02	2008+0	2015+1	2038	S08	E81	.988	17310	8.9	30	-F						
HOLL	02	2008	2015	2038	S09	E81	.988	17310	8.9	30	-F	3	C				
BIGB	02	2008	2016	2037	S08	E81	.988	17310	8.9	29	-F	2	C	2018	130		
287 HOLL	02	2037	2038	2100	S09	E12	.266	17305	3.8	23	-F	3	C		28		
GRP90288	02	2241+7	2251+7	2330	S12	E05	.237	17304	3.3	49	-N				100	1.0	
HOLL	02	2241	2256	2335D	S12	E06	.244	17304	3.4	54D	-N	*	C		100		
BIGB	02	2248	2251	2310	S15	E05	.285	17304	3.3	22	-F	*	C	2251	120	1.2	
LEAR	02	2258	2258	2330	S11	E01	.205	17304	3.0	32	-N	*	C		22		
289 HOLL	02	2242	2243	2307	S07	E74	.962	17310	8.5	25	-N	3	C				
	02	2346	2347	NO FLARE PATROL													
GRP90290	02	2353+1	0004+2 2425	0048	S14	E02	.257	17304	3.1	55	1N						JL
YUNN	03	0000E	0025	0050	S14	E02	.255	17304	3.1	50D	1N		P		401	4.3	
LEAR	02	2353	2406	0041	S11	E00	.204	17304	3.0	48	1B	3	C		335		D
VORO	02	2354	2404	0048	S14	E02	.257	17304	3.1	54	1N		C	2440	358	3.8	EJL
GRP90291	03	0019+3	0024+2	0035	N19	W65	.915	17294	28.1	16	1N				110		E
LEAR	03	0019	0024	0040	N17	W63	.899	17294	28.3	21	-N	3	C		105		
YUNN	03	0020	0025	0035	N20	W69	.940	17294	27.8	15	1N		C		96		
VORO	03	0022	0026	0032	N19	W65	.915	17294	28.1	10	1F		C	0026	134		E
GRP90292	03	0128+6	0138+7	0158	S13	E01	.237	17304	3.1	30	-N				120	1.2	JL
YUNN	03	0128	0143	0158	S14	E02	.255	17304	3.2	30	-N		C		129	1.4	
LEAR	03	0133	0138	0158	S11	W01	.203	17304	3.0	25	-B	3	C		63		D
VORO	03	0134	0138	0200	S12	E02	.222	17304	3.2	26	-F		C	0138	108	1.1	EJL
PEKG	03	0142	0145	0155	S14	E01	.253	17304	3.1	13	1F		C	0145	315	3.4	F
293 LEAR	03	0446	0449	0454	S12	E19	.386	17309	4.6	8	-F	3	C		26		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
294 LEAR	03	0644	0658	0713	S10	E08	.230	17305	3.9	29	-F	3 C		72		
295 LEAR	03	0728	0731	0735	N17	W67	.926	17294	28.3	7	-F	3 C		13		
GRP90296	03	0733>9	0755+0	0802	S10	W04	.197	17304	3.0	29	-F			50	.5	
LEAR	03	0733	0755	0804	S13	W02	.238	17304	3.2	31	-N	3 C		70		
CATA	03	0755	0755	0800	S07	W07	.180	17304	2.8	5	-F	2 C	0755	28	.3	
297 LEAR	03	0912	0913	0928	S12	E16	.347	17309	4.6	16	-F	3 C		59		
298 LEAR	03	0924	0935	0953	N21	W62	.897	17292	28.7	29	-F	3 C		58		
299 HTPR	03	1057	1107	1113	S08	W14	.283	17304	2.4	16	-N	C	1107	60	.6	
	03	1337	1418	NO FLARE PATROL												
300 HOLL	03	1454	1457	1507	N22	W14	.428	17298	2.6	13	-F	3 C		43		
GRP90301	03	1711+3	1726+2	1754	S10	E11	.263	17309	4.5	43	-F					
HOLL	03	1711	1726	1758	S10	E12	.276	17309	4.6	47	-N	3 C		58		
BIGB	03	1714	1728	1749	S11	E11	.275	17309	4.5	35	-F	3 C	1728	160	1.7	
GRP90302	03	1910+3	1912+3	1937	S08	W12	.255	17304	2.9	27	-N			100	1.0	
HOLL	03	1910	1912	1937	S12	W09	.267	17304	3.1	27	-N	3 C		107		
BIGB	03	1910	1914	1942	S07	W14	.274	17304	2.7	32	-N	3 C	1913	90	.9	
RAMY	03	1911	1915	1915D	S07	W14	.274	17304	2.7	4D	1N	3 C		325		
PALE	03	1913	1913	1916	S10	W11	.263	17304	3.0	3	-F	3 C		34		
303 HOLL	03	1913	1917	1932	N24	W16	.470	17298	2.6	19	-F	3 C		41		
304 HOLL	03	1921	1922	1928	N10	W06	.192	17301	3.4	7	-F	3 C		26		
305 HOLL	03	1936	1956	2024	S09	E00	.168	17305	3.8	48	-F	3 C		63		
306 HOLL	03	2012	2023	2029	S07	W14	.274	17304	2.8	17	-N	3 C		29		
307 HOLL	03	2133	2133	2138	S08	W15	.297	17304	2.8	5	-F	3 C		22		
GRP90308	03	2133+1	2134+3	2153	S30	E35	.711	17308	6.5	20	-N					
BIGB	03	2133	2134	2150	S30	E36	.719	17308	6.6	17	-N	3 C	2134	120	1.5	
HOLL	03	2134	2137	2155	S30	E35	.711	17308	6.5	21	-N	3 C		49		
GRP90309	03	2135+3	2140+3	2200	N23	W18	.475	17298	2.5	25	-F			90	1.0	
BIGB	03	2135	2143	2158	N23	W19	.485	17298	2.5	23	-F	3 C	2143	120	1.3	
HOLL	03	2138	2140	2201	N23	W18	.475	17298	2.6	23	-N	3 C		62		
310 HOLL	03	2154	2155	2239	S12	W11	.288	17304	3.1	45	-N	3 C		44		
GRP90311	03	2242+8	2252+4	2314	N22	W18	.464	17298	2.6	32	-F			90	1.0	
LEAR	03	2242	2256	2309	N22	W18	.464	17298	2.6	27	-F	3 C		132		
HOLL	03	2250	2252	2318	N22	W18	.464	17298	2.6	28	-N	3 C		55		
312 HOLL	03	2250	2255	2308	N17	W77	.976	17294	28.2	18	-F	3 C				
GRP90313	03	2256>9	2306+2 2319+1	2345	S09	W16	.319	17304	2.8	49	-N			90	.9	E
LEAR	03	2256	2307	2350	S08	W16	.311	17304	2.8	54	-N	3 C		129		
HOLL	03	2301	2306	2331D	S08	W16	.311	17304	2.8	30D	-B	3 C		56		
BIGB	03	2302	2308	0015	S08	W17	.326	17304	2.7	73	-N	3 C	2308	120	1.3	
MITK	03	2306E	2308	2322	S08	W18	.341	17304	2.6	16D	-N	C	2308			E
PALE	03	2306	2307	2311	S08	W16	.311	17304	2.8	5	-F	3 C		30		
MITK	03	2310	2319	2340	S14	W14	.345	17304	2.9	30	-F	C	2319			E
PALE	03	2317	2320	2331	S14	W12	.323	17304	3.1	14	-F	3 C		48		D
GRP90314	03	2350>9	2350 2410	0011	N23	W18	.475	17298	2.6	21	-N					
YUNN	04	0000	0010	0015	N24	W18	.489	17298	2.7	15	-N	C		48	.6	
LEAR	03	2350	2350	0006	N22	W18	.464	17298	2.6	16	-N	3 C		34		
315 YUNN	04	0034E	0035	0036	S10	W05	.202	17305	3.6	2D	-N	P		32	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90316	04	0115+5	0116+2 0125+1	0135	S11	W14	.310	17304	3.0	20	-N				50	.5	
CULG	04	0115	0116	0133U	S11	W15	.323	17304	2.9	18D	-F		C	0116	70	.7	
LEAR	04	0117	0118	0134	S11	W14	.310	17304	3.0	17	-N	3	C		41		
YUNN	04	0120	0125	0135D	S11	W13	.298	17304	3.1	15D	-N		P		80	.9	
MANI	04	0122E	0126U	0136D	S13	W15	.344	17304	2.9	14D	-F	1	V		25	.3	
GRP90317	04	0139	0147 0200	0210D	S10	W18	.355	17304	2.7	31	-N						F
CULG	04	0139	0147	0159	S12	W15	.333	17304	2.9	20	-N		C	0147	170	1.8	F
CULG	04	0157	0200	0210U	S08	W21	.384	17304	2.5	13D	-F	*	C	0200	60	.7	
318 CULG	04	0141	0145	0157	N13	W50	.778	17295	30.3	16	-F		C	0145	40	.7	
319 CULG	04	0144	0149	0205	S10	W03	.190	17305	3.8	21	-F		C	0149	40	.4	
320 LEAR	04	0155	0200	0211	N23	W33	.631	17296	1.6	16	-F	3	C		34		
321 CULG	04	0234	0234E	0245	N04	W14	.249	17301	3.1	11	-N		P	0234	60	.6	
322 CULG	04	0234E	0234E	0249U	S11	W15	.323	17304	3.0	15D	-N		P	0234	150	1.6	FB
GRP90323	04	0307	0314	0334	S10	W16	.327	17304	2.9	27	-N				35	.4	
LEAR	04	0307	0314	0334	S11	W15	.323	17304	3.0	27	-N	3	C		54		
YUNN	04	0315E	0315	0315D	S10	W17	.341	17304	2.9		-N		P		16	.2	
GRP90324	04	0310	0314	0330	N16	W79	.983	17294	28.2	20	-N						
LEAR	04	0310	0314	0335	N16	W79	.983	17294	28.2	25	-N	3	C				
YUNN	04	0315E	0315	0325	N16	W80	.986	17294	28.1	10D	-N		P		32		
GRP90325	04	0334+1	0335+1	0342	N13	W49	.767	17295	30.5	8	-N				50	.8	DJ
PEKG	04	0334	0335	0337	N13	W49	.767	17295	30.5	3	-F		C	0336	42	.7	D
LEAR	04	0334	0335	0346	N13	W51	.788	17295	30.3	12	-B	3	C		71		
VORO	04	0335	0336	0342	N12	W49	.765	17295	30.5	7	-F		C	0336	45	.7	DJ
326 LEAR	04	0337	0342	0345	S12	W13	.309	17304	3.2	8	-N	3	C		27		
327 CULG	04	0359	0407	0425	S08	W20	.370	17304	2.7	26	-N		C	0407	120	1.3	
GRP90328	04	0404+3	0407+0	0415	S09	W02	.169	17305	4.0	11	-N						
CULG	04	0404	0407	0416	S09	W02	.169	17305	4.0	12	-N		C	0407	80	.8	
LEAR	04	0407	0407	0413	S09	W02	.169	17305	4.0	6	-N	3	C		22		
329 CULG	04	0427	0429	0438	S08	W20	.370	17304	2.7	11	-F		C	0429	130	1.4	H
330 CULG	04	0434	0437	0443	S09	W02	.169	17305	4.0	9	-F		C	0437	30	.3	
GRP90331	04	0450>9	0458 0510	0532	S10	W17	.341	17304	2.9	42	-N						HJ
CULG	04	0450	0458	0520	S08	W20	.370	17304	2.7	30	1N		C	0458	300	3.3	HJ
LEAR	04	0506	0510	0525	S11	W16	.336	17304	3.0	19	-N	3	C		21		
CULG	04	0515	0519	0539	S12	W15	.333	17304	3.1	24	-N		C	0519	100	1.1	T
GRP90332	04	0605+8	0613+3	0624	S12	W13	.309	17304	3.3	19	-N						DJ
YUNN	04	0605D	0615	0625	S12	W13	.309	17304	3.3	20D	1N		P		369	4.0	
CULG	04	0610	0614	0640	S12	W13	.309	17304	3.3	30	-B		C	0614	160	1.7	JT
LEAR	04	0612	0613	0622	S13	W13	.320	17304	3.3	10	-B	3	C		48		
PEKG	04	0613	0616	0621	S13	W13	.320	17304	3.3	8	-N		C	0616	55	.6	D
333 CULG	04	0638	0641	0655	N23	W22	.515	17298	2.6	17	-F		C	0641	50	.6	
334 CULG	04	0642	0650	0654	N28	E34	.677	17302	6.8	12	-F		C	0650	30	.4	
335 YUNN	04	0721	0726	0730	S12	W14	.321	17304	3.3	9	-N		C		80	.9	
336 CATA	04	0940	0940	0950	S08	W25	.444	17304	2.5	10	-F	2	C	0940	84	1.0	
337 KANZ	04	1220	1224	1232	S12	W16	.346	17304	3.3	12	-N	1					
338 HOLL	04	1646	1646	1730	S12	W22	.425	17304	3.0	44	-N	3	C		27		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90339	04	1852>9	1903+0	1910D	S12	W22	.425	17304	3.1	18	-N			45	.5	
HOLL	04	1852	1903	1946	S12	W22	.425	17304	3.1	54	-N	3 C		56		
RAMY	04	1902	1903	1910	S12	W22	.425	17304	3.1	8	-N	3 C		30		
340 CULG	04	2300	2302	2305	N22	W32	.613	17298	2.6	5	-F	C	2302	40	.5	
341 CULG	04	2306	2307	2312	N12	W21	.403	17301	3.4	6	-F	C	2307	40	.4	
342 CULG	04	2309	2315	2329	S13	W26	.487	17304	3.0	20	-F	C	2315	40	.5	T
343 CULG	04	2323	2327	2337	N27	E24	.575	17302	6.8	14	-F	C	2327	60	.7	
344 CULG	05	0006	0010	0021	N12	W22	.418	17301	3.4	15	-F	C	0010	20	.2	
345 CULG	05	0021	0029	0041	S11	W26	.473	17304	3.1	20	-N	C	0029	60	.7	
346 CULG	05	0134	0146	0200D	S18	W19	.442		3.6	26D	-N	C	0146	140	1.6	F
347 LEAR	05	0154	0201	0215	S13	W30	.539	17304	2.8	21	-N	3 C		68		
348 LEAR	05	0443	0445	0503	S11	E49	.766	17310	8.9	20	?N	3 C		190		
			IMP.1 NO : MITK YUNN													
GRP90349	05	0612+2	0618+1	0653	S13	E50	.781	17310	9.0	41	1F			190	3.0	
ABST	05	0612	0619	0657	S12	E49	.768	17310	8.9	45	1F	C	0619	192	3.0	F
MITK	05	0613		0644	S13	E50	.781	17310	9.0	31	1F	C	0614	270	4.4	E
LEAR	05	0614	0618	0653	S14	E50	.783	17310	9.0	39	-N	3 C		71		
GRP90350	05	1126	1128	1140	S11	W33	.570	17304	3.0	14	-F					D
LVOV	05	1126	1128	1145	S12	W34	.587	17304	2.9	19	-F	C	1128	150	1.8	D
HTPR	05	1132E		1135	S10	W32	.552	17304	3.1	3D	-N	C	1132	50	.6	
351 HOLL	05	1501	1529	1538	S12	W35	.600	17304	3.0	37	-F	2 C		51		
352 HOLL	05	1617	1618	1629	S13	W34	.592	17304	3.1	12	-F	2 C		22		
353 HOLL	05	1621	1627	1643	S11	W25	.459	17305	3.8	22	-F	3 C		25		
354 HOLL	05	1718	1718	1721	S11	E38	.635	17310	8.6	3	-F	3 C		28		
355 CULG	05	2059	2146U	2323U	S12	W38	.639	17304	3.0	144D	1N	C	2146	160	2.1	FTJ
356 CULG	05	2144	2155	2221	S18	W29	.558		3.7	37	-F	C	2155	60	.7	
357 CULG	05	2145	2154	2209	S32	E08	.549	17308	6.5	24	-N	C	2154	130	1.5	G
358 CULG	05	2217	2220	2228	N22	W43	.733	17298	2.7	11	-F	C	2220	30	.4	
GRP90359	06	0005+2	0010+6	0035	S11	W40	.660	17304	3.0	30	-N					L
CULG	06	0005	0016	0047	S11	W42	.685	17304	2.9	42	1F	C	0016	170	2.3	TLF
LEAR	06	0007	0010	0024	S11	W38	.635	17304	3.2	17	-N	3 C		55		
YUNN	06	0014E	0015	0035	S12	W40	.663	17304	3.0	21D	-N	P		96	1.3	E
GRP90360	06	0306+1	0309+2	0324	S12	W41	.676	17304	3.1	18	-N			30	.4	
LEAR	06	0306	0309	0318	S12	W40	.663	17304	3.1	12	-N	3 C		26		
YUNN	06	0307	0311	0330	S12	W42	.688	17304	3.0	23	-N	C		32	.5	
GRP90361	06	0410+3	0413+2	0425	S08	E06	.177	17306	6.6	15	-F			35	.4	EG
YUNN	06	0410D	0415	0435	S08	E05	.168	17306	6.5	25D	-F	P		48	.5	
MITK	06	0412	0413	0423	S08	E06	.177	17306	6.6	11	-F	C	0413			EG
LEAR	06	0413	0415	0425	S07	E06	.164	17306	6.6	12	-F	3 C		22		
GRP90362	06	0434+0	0439+2	0509	S11	W44	.709	17304	2.9	35	-N			130	1.8	E
YUNN	06	0434	0439	0500	S12	W44	.712	17304	2.9	26	-N	C		96	1.4	E
CULG	06	0434	0441	0518	S11	W44	.709	17304	2.9	44	1F	C	0441	160	2.2	
363 YUNN	06	0953	0957	1005	S10	W44	.707	17304	3.1	12	-N	C		64	1.0	
GRP90364	06	1013+7	1035	1050	S31	E01	.519	17308	6.5	37	-F			80	.9	E
HTPR	06	1013		1043D	S31	E01	.519	17308	6.5	30D	-N	C	1032	60	.7	E
CATA	06	1020	1035	1050	S31	E01	.519	17308	6.5	30	-F	2 C	1035	112	1.4	

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	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
365	CATA	06	1135	1135	1155	S14	W45	.729	17304	3.1	20	-F	2	C	1135	84	1.3	
		06	1403	1457	NO FLARE PATROL													
366	HTPR	06	1458E		1518	S12	W46	.735	17304	3.2	20D	-F		C	1503	100	1.4	EK
		06	1522	1555	NO FLARE PATROL													
GRP90367		06	2150>9	2214+5	2237D	S15	W51	.795	17304	3.1	47	1N				280	4.6	F
	CULG	06	2150	2219U	2309	S13	W53	.811	17304	2.9	79	2N		C	2219	380	6.5	F
	BIGB	06	2201	2214	2237	S18	W49	.783	17304	3.2	36	1N	3	C	2214	190	3.0	
368	CULG	06	2250	2256	2303	N26	W63	.912	17298	2.2	13	-F		C	2256	80	1.8	
369	CULG	07	0010	0017	0030	S10	W55	.825	17304	2.9	20	?F		C	0017	120	2.2	
				IMP.1 NO : MITK YUNN														
370	CULG	07	0040	0105	0125U	S11	E03	.200	17312	7.3	45D	-F		C	0105	60	.6	H
371	YUNN	07	0042	0047	0057	N25	W60	.891	17298	2.5	15	?N		C		96		
				IMP.1 NO : CULG MITK														
GRP90372		07	0146	0156+6	0212	N14	E76	.972	17321	12.8	26	-N						
	YUNN	07	0146	0156	0206	N14	E76	.972	17321	12.8	20	1N		C		113		
	LEAR	07	0156E	0202U	0218	N15	E76	.972	17321	12.8	22D	-N	3	C				
373	YUNN	07	0146	0156	0201	N25	W60	.891	17298	2.6	15	?N		C		96		
				IMP.1 NO : MITK CULG LEAR														
374	CULG	07	0155	0206U	0238	S29	W10	.510	17308	6.3	43	-F		C	0206	60	.7	
375	CULG	07	0256	0257	0302	S08	W56	.833	17304	2.9	6	-F		C	0257	40	.7	
GRP90376		07	0314+7	0321+4	0341	N15	W21	.431	17303	5.6	27	-F				90	1.0	EGJ
	YUNN	07	0314	0324	0328	N16	W21	.440	17303	5.6	14	-N		C		161	1.9	G
	CULG	07	0317	0321	0349	N15	W21	.431	17303	5.6	32	-N		C	0321	70	.8	
	LEAR	07	0320	0325	0339	N14	W21	.422	17303	5.6	19	-F	3	C		50		
	VORO	07	0321	0325	0342	N16	W21	.440	17303	5.6	21	-F		C	0325	108	1.1	EJ
GRP90377		07	0323+6	0334 0349+2	0424	S13	E25	.470	17310	9.0	61	1F				310	3.5	F
	CULG	07	0323	0349D	0500U	S14	E25	.477	17310	9.0	97D	1N		P	0349	400	4.6	F
	MITK	07	0329	0351	0424	S13	E26	.484	17310	9.1	55	1F		C	0351	230	2.7	EF
	LEAR	07	0329	0334	0340	S13	E24	.457	17310	8.9	11	-F	3	C		79		
378	LEAR	07	0340	0345	0356	N15	E75	.968	17321	12.8	16	-F	3	C				
379	YUNN	07	0430	0435	0444	S09	W49	.762	17304	3.5	14	-N		C		96	1.5	
380	CULG	07	0444	0446	0454	N15	W21	.431	17303	5.6	10	-F		C	0446	50	.5	
GRP90381		07	0452+4	0459 0506	0523	S10	W54	.816	17304	3.2	31	-N						F
	CULG	07	0452	0459	0530U	S10	W55	.825	17304	3.1	38D	-N		C	0459	100	1.8	F
	LEAR	07	0456	0506	0516	S11	W54	.817	17304	3.2	20	-N	3	C		30		
382	YUNN	07	0459	0503	0532D	N13	E73	.958	17321	12.7	33D	?N		C		80		
				IMP.1 NO : LEAR MITK CULG														
GRP90383		07	0532+4	0540 0551	0619	N13	E72	.953	17321	12.6	47	1B						D
	LEAR	07	0532	0540	0627	N14	E75	.968	17321	12.9	55	1B	3	C				D
	CULG	07	0536	0551U	0611	N13	E70	.943	17321	12.5	35	1B		C	0551	140		
GRP90384		07	0649	0650 0702	0713	N14	E72	.954	17321	12.7	24	-N						D
	YUNN	07	0649	0650	0713	N14	E73	.959	17321	12.8	24	-N		C		64		
	ABST	07	0659E	0702	0704D	N15	E72	.954	17321	12.7	5D	1F		P	0702	87		D
385	YUNN	07	0744	0819	0840D	N14	E74	.963	17321	12.9	56D	-N		P		64		

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386 YUNN	07	0810D	0819 IMP.1	0819D NO : CATA	S18	E90	1.000	17319	14.1	9D	?N	P		64		
387 CATA	07	0900E	0920	0940D	N14	E71	.949	17321	12.7	40D	1F 2	P	0920	84		
388 CATA	07	0915	0915	0930	S18	E85	.997	17319	13.8	15	-F 2	C	0915	38		
	07	1019	1534	NO FLARE PATROL												
389 BIGB	07	1617	1623	1645	N18	E70	.945	17321	12.9	28	1N 3	C	1626	70	2.1	
390 CULG	07	2225	2227	2239	S08	W55	.823	17305	3.8	14	-F	C	2227	40	.6	
391 CULG	07	2328	2334	2343	N12	E78	.979	17323	13.8	15	-N	C	2334	60		
GRP90392	08	0028>9	0041+0	0054D	S09	W51	.783	17305	4.2	26	-F					F
CULG	08	0028	0041	0142U	S08	W48	.749	17305	4.4	74D	1F	C	0041	210	3.4	F
LEAR	08	0038	0041	0054	S10	W55	.825	17305	3.9	16	-F 3	C		38		
393 CULG	08	0255	0258	0308	N15	E73	.959	17323	13.6	13	-F	C	0258	40		
394 CULG	08	0531	0543	0558	S08	W56	.833	17305	4.0	27	-F	C	0543	60	1.0	
GRP90395	08	0604+3	0611+1	0633	S15	E39	.661	17314	11.2	29	-N			130	1.7	E
ABST	08	0604	0611	0627	S13	E39	.653	17314	11.2	23	-F	C	0611	148	2.0	E
CULG	08	0605U	0611	0653	S15	E38	.649	17314	11.1	48D	-N	C	0611	90	1.3	
YUNN	08	0607	0612	0633	S15	E39	.661	17314	11.2	26	1N	C		161	2.2	
396 YUNN	08	0707	0711	0721	S05	E35	.578	17313	10.9	14	-N	C		80	1.0	
GRP90397	08	0710+2	0715 0722	0738	N15	E60	.876	17321	12.8	28	1N			170	3.5	F
CULG	08	0710	0722	0739	N15	E60	.876	17321	12.8	29	1N	C	0722	120	2.5	
YUNN	08	0711	0721	0721D	N15	E61	.884	17321	12.9	10D	1N	P		225	4.8	
ABST	08	0712	0715	0737	N16	E60	.877	17321	12.8	25	1N	C	0715	157	3.3	F
GRP90398	08	0747	0749	0800	S09	W63	.894	17304	3.6	13	-N			25	.6	
LEAR	08	0747	0749	0804	S11	W64	.903	17304	3.5	17	-N 3	C		15		
CULG	08	0750E	0750U	0756	S08	W62	.885	17304	3.7	6D	-F	P	0750	30	.6	
GRP90399	08	0936+6		0947	S06	E34	.566	17313	10.9	11	-F			45	.5	D
KHAR	08	0936		0946	S07	E34	.568	17313	10.9	10	-F	V				D
YUNN	08	0942	0947	0952	S06	E34	.566	17313	11.0	10	-F	C		64	.8	
HTPR	08	0942E		0947	S06	E33	.552	17313	10.9	5D	-F	C	0942	30	.4	
400 KHAR	08	1004	1008	1014	S24	E90	1.000		15.2	10	-N	P				HL
	08	1529	1713	NO FLARE PATROL												
	08	1718	1728	NO FLARE PATROL												
	08	1800	1814	NO FLARE PATROL												
401 HOLL	08	1914E	2044U	2131	N08	W50	.771		5.1	137D	-N 2	C		116		
402 BIGB	08	2002	2003	2024	S08	E27	.471	17313	10.9	22	-F 3	C	2003	120	1.4	
GRP90403	08	2031+4	2038+0	2105	N16	E52	.806	17321	12.8	34	1B			130	2.2	F
CULG	08	2031	2038	2113	N16	E53	.816	17321	12.8	42	1B	C	2038	170	2.9	F
BIGB	08	2035	2038	2056	N17	E52	.808	17321	12.8	21	-B 3	C	2038	90	1.5	
404 CULG	08	2035	2044	2112	N24	E46	.773	17320	12.3	37	-F	C	2044	100	1.6	
405 CULG	08	2053	2102	2136U	S13	E00	.225	17310	8.9	43D	-F	C	2102	80	.8	
GRP90406	08	2121+5	2127+1	2140	S06	E28	.478	17313	11.0	19	-N			80	.9	
CULG	08	2121	2127	2137	S07	E27	.467	17313	10.9	16	-N	C	2127	100	1.1	
HOLL	08	2126	2128	2142	S06	E28	.478	17313	11.0	16	-N 2	C		79		
BIGB	08	2126	2128	2140	S06	E29	.493	17313	11.1	14	-F 3	C	2128	60	.7	
407 CULG	08	2153	2156	2206	N20	E43	.726	17320	12.1	13	-F	C	2156	30	.5	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90408	08	2214+2	2217+1	2227	S10	W70	.942	17305	3.7	13	-F				45		
CULG	08	2214	2217	2227	S09	W70	.941	17305	3.7	13	-N		C	2217	50		
HOLL	08	2216	2218	2227	S11	W70	.942	17305	3.7	11	-F	2	C		36		
409 CULG	08	2334	2341	2350	S18	E56	.847	17318	13.2	16	-F		C	2341	60	1.1	H
410 CULG	08	2343	2349U	2359	S17	W50	.789		5.2	16	-F		C	2349	20	.3	GH
GRP90411	09	0106+4	0111+3	0131	N23	E42	.730	17320	12.2	25	-F						G
CULG	09	0106	0111	0136	N23	E43	.740	17320	12.3	30	-N		C	0111	120	1.8	FG
VORO	09	0110	0114	0126	N23	E42	.730	17320	12.2	16	-F		C	0114	45	.7	D
412 LEAR	09	0218	0221	0235	S07	E24	.421	17313	10.9	17	-F	3	C		67		
GRP90413	09	0309+5	0329+3	0401	S06	E23	.402	17313	10.9	52	-N						EJK
LEAR	09	0309	0329	0410	S07	E24	.421	17313	10.9	61	-N	3	C		58		
VORO	09	0314	0332	0352	S06	E22	.386	17313	10.8	38	-N		C	0332	152	1.7	EJK
GRP90414	09	0432+1	0436+1	0446	S11	W80	.985	17304	3.2	14	-N				40		
LEAR	09	0432	0437	0445	S12	W86	.998	17304	2.7	13	-N	3	C		39		
CULG	09	0433	0436	0447	S11	W75	.967	17304	3.6	14	-N		C	0436	40		
415 MITK	09	0439	0441	0451	S07	E23	.406	17313	10.9	12	?F		C	0441	210	2.4	
			IMP.1 NO : CULG LEAR														
GRP90416	09	0456+9	0505+3	0522	S18	E52	.810	17318	13.1	26	-F						
CULG	09	0456	0508	0525	S18	E52	.810	17318	13.1	29	-N		C	0508	80	1.4	T
LEAR	09	0505	0505	0519	S18	E52	.810	17318	13.1	14	-F	3	C		15		
417 CULG	09	0514	0516	0528	S15	W29	.534	17307	7.0	14	-F		C	0516	80	1.0	
GRP90418	09	0557>9	0703	0843	S19	W40	.689	17307	6.2	166	2N						EGIJ
			0733+2														
CULG	09	0557	0733U	0839D	S18	W42	.707	17307	6.1	162D	2N		C	0733	640	9.0	SU
ABST	09	0624	0628	0650	S23	W34	.645	17307	6.7	26	-N		C	0628	131	1.7	EJ
ABST	09	0658	0703	0756	S20	W40	.693	17307	6.3	58	1N		C	0703	262	3.8	EJ
CATA	09	0720E	0735	0750D	S20	W38	.671	17307	6.5	30D	3F	1	P	0735	1237	17.2	
KANZ	09	0753E		0911D	S19	W40	.689	17307	6.3	78D	2N	*					U
WEND	09	0812E		0841D	S16	W42	.699	17307	6.2	29D	2N	*	C	0815	840	12.1	BGIU
CATA	09	0825E	0840	0850D	S18	W40	.684	17307	6.4	25D	3F	*	P	0840	956	13.5	
419 LEAR	09	0600	0603	0610	S07	E22	.391	17313	10.9	10	-F	3	C		24		
GRP90420	09	0617+8	0625+1	0651D	S18	W02	.309	17310	9.1	34	-F						
			0649														
CULG	09	0617	0626	0728	S18	W01	.308	17310	9.2	71	-F		C	0626	120	1.3	
LEAR	09	0625	0625	0632	S18	W02	.309	17310	9.1	7	-F	3	C		38		
LEAR	09	0641	0649	0651	S18	W03	.311	17310	9.1	10	-F	3	C		46		
GRP90421	09	0621+5	0624	0642	S18	E51	.801	17318	13.1	21	-N						DJ
			0630+4														
ABST	09	0621	0624	0640	S18	E50	.791	17318	13.0	19	-N		C	0624	87	1.5	DJ
CULG	09	0622	0630	0642	S18	E52	.810	17318	13.2	20	-N		C	0630	80	1.4	T
LEAR	09	0626	0634	0642	S18	E51	.801	17318	13.1	16	-N	3	C		24		
GRP90422	09	0633+8	0641+4	0720	S13	E23	.441	17314	11.0	47	-N						EJK
			0700+2														
CULG	09	0633	0641	0747	S13	E23	.441	17314	11.0	74	-N		C	0641	140	1.5	KT
LEAR	09	0641	0645	0651	S12	E23	.434	17314	11.0	10	-N	3	C		29		
ABST	09	0658	0702	0715	S13	E24	.455	17314	11.1	17	-N		C	0702	131	1.5	EJ
LEAR	09	0700	0700	0720	S14	E24	.462	17314	11.1	20	-N	3	C		23		
423 ABST	09	0655	0657	0720	N21	W90	1.000	17298	2.5	25	?F		C	0657	87		D
			IMP.1 NO : CULG LEAR														
424 LEAR	09	0917	0918	0935	S14	W05	.255	17310	9.0	18	-F	3	C		55		
GRP90425	09	0950+3	0950	1010	S12	E21	.407	17314	11.0	20	-F						
			1001+0														
LEAR	09	0950	0950	1010	S12	E21	.407	17314	11.0	20	-F	*	C		26		
WEND	09	0952	1001	1009	S12	E21	.407	17314	11.0	17	-F	*	C	1001	46	.5	
KANZ	09	0953	1001	1013	S11	E22	.413	17314	11.1	20	-F	*					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90426	09	0952+1	0957+2	1007	N16	E44	.723	17321	12.7	15	-F					
WEND	09	0952	0959	1005	N16	E44	.723	17321	12.7	13	-F	C	0959	44	.7	
KANZ	09	0953	0957	1009	N17	E45	.737	17321	12.8	16	-F	2				
GRP90427	09	1009+4	1012+6	1028	S18	E49	.781	17318	13.1	19	-N			25	.4	L
HTPR	09	1009	1012	1027	S18	E49	.781	17318	13.1	18	-B	C	1012	30	.5	
WEND	09	1009	1018	1032	S18	E49	.781	17318	13.1	23	-N	C	1018	50	.8	L
LEAR	09	1011	1012	1017	S19	E48	.774	17318	13.0	6	-F	3 C		16		
KANZ	09	1013	1017	1029	S17	E49	.778	17318	13.1	16	-F	2				L
428 CATA	09	1050	1050	1055	S12	W90	1.000	17304	2.7	5	?F	1 C	1050	84		
			IMP.1 NO : WEND KANZ HTPR													
429 KANZ	09	1210	1226	1246	S11	E19	.371	17314	10.9	36	-F	2				
430 KANZ	09	1313	1321	1341D	S11	E18	.357	17314	10.9	28D	-F	2				
431 HTPR	09	1441	1442	1455	S13	W06	.245	17310	9.2	14	-F	C	1442	30	.3	E
GRP90432	09	1531+2	1535+2	1547	S17	E46	.747	17318	13.1	16	-N			60	.9	
BIGB	09	1531	1535	1554	S18	E48	.771	17318	13.2	23	-N	3 C	1535	60	.9	
RAMY	09	1533	1537	1539	S17	E45	.736	17318	13.0	6	-N	3 C		60		
GRP90433	09	1544+8	1555+2	1647	N17	E44	.726	17321	13.0	63	-N			90	1.3	
HOLL	09	1544	1555	1646	N17	E44	.726	17321	13.0	62	-N	3 C		156		
RAMY	09	1551	1556U	1632D	N17	E42	.704	17321	12.8	41D	-N	3 C		88		
BIGB	09	1552	1557	1647	N16	E45	.734	17321	13.0	55	-N	3 C	1557	60	.9	
434 HOLL	09	1658	1702	1714	S15	E46	.741	17318	13.2	16	-F	3 C		45		
GRP90435	09	1708>9	1759+0	1833	N17	E42	.704	17321	12.9	85	-F			70	1.0	
HOLL	09	1708	1759	1837	N17	E42	.704	17321	12.9	89	-N	3 C		82		
BIGB	09	1757	1759	1829	N17	E42	.704	17321	12.9	32	-F	3 C	1759	60	.8	
GRP90436	09	2023>9	2034 2053	2111	N15	E41	.685	17321	12.9	48	-F					FK
CULG	09	2023U	2034U	2112U	N15	E46	.742	17321	13.3	49D	1F	C	2034	160	2.2	FK
HOLL	09	2042	2053	2110	N15	E36	.625	17321	12.6	28	-F	3 C		29		
GRP90437	09	2142+0	2145+1	2204	N16	E40	.677	17321	12.9	22	-N			80	1.1	
CULG	09	2127	2145	2208	N15	E41	.685	17321	13.0	41	-N	C	2145	100	1.4	T
HOLL	09	2142	2146	2204	N17	E39	.670	17321	12.8	22	-N	2 C		50		
BIGB	09	2142	2146	2204	N16	E40	.677	17321	12.9	22	-N	3 C	2146	80	1.1	
438 CULG	09	2211	2217	2235	N10	E40	.657	17324	12.9	24	-F	C	2217	100	1.3	
GRP90439	09	2224+6	2238+0	2300	S11	E14	.303	17314	11.0	36	-F			110	1.2	
CULG	09	2224	2238	2306U	S11	E14	.303	17314	11.0	42D	-F	C	2238	140	1.5	
HOLL	09	2230	2238	2254	S11	E15	.317	17314	11.1	24	-F	2 C		85		
440 CULG	09	2231	2244	2332U	S14	W15	.347	17310	8.8	61D	-F	C	2244	120	1.3	F
441 CULG	09	2341	2351	0005	S08	E21	.381	17317	11.6	24	-F	C	2351	40	.4	
442 CULG	10	0014	0017	0028	S18	E40	.684	17318	13.0	14	-F	C	0017	80	1.1	
443 CULG	10	0022	0034	0050	S10	W37	.617	17312	7.2	28	-F	C	0034	40	.5	
444 LEAR	10	0211	0214	0221	N08	E37	.613	17324	12.9	10	-N	3 C		40		
GRP90445	10	0308+4	0312+1	0319	N16	E37	.642	17321	12.9	11	-N			150	2.0	D
YUNN	10	0308D	0312	0317	N15	E38	.650	17321	13.0	9D	1N	C		177	2.4	
CULG	10	0310	0312	0321	N16	E38	.654	17321	13.0	11	1B	C	0312	160	2.1	T
MITK	10	0312	0312	0319	N16	E37	.642	17321	12.9	7	-N	C	0312			D
MANI	10	0312	0313	0315	N16	E36	.630	17321	12.8	3	-N	1 V		130	1.7	
LEAR	10	0312	0313	0321	N16	E37	.642	17321	12.9	9	-B	3 C		145		D
GRP90446	10	0332+7	0339+3	0350	N14	E36	.621	17321	12.8	18	-N			45	.6	
CULG	10	0332	0339	0353	N15	E38	.650	17321	13.0	21	-N	C	0339	60	.8	T
LEAR	10	0339	0342	0347	N14	E34	.595	17321	12.7	8	-N	3 C		29		

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GRP90447	10	0536+9	0545+6 0609+5	0638	N16	E34	.606	17321	12.8	62	1N				210	2.6	EJK
LEAR	10	0536	0545	0630	N15	E33	.588	17321	12.7	54	-N	3	C		64		
MITK	10	0538	0551	0600D	N16	E34	.606	17321	12.8	22D	-F		C	0551			E
PURP	10	0538	0550	0638	N16	E35	.618	17321	12.9	60	1B		C				
CULG	10	0545	0550	0622	N17	E35	.623	17321	12.9	37	-N		C	0550	80	1.0	T
ABST	10	0559E	0614	0647	N16	E35	.618	17321	12.9	48D	1F		P	0614	175	2.3	EJ
YUNN	10	0608E	0609	0650	N15	E34	.600	17321	12.8	42D	1N		P		241	3.1	EKT
GRP90448	10	0722+8	0729+1	0737	S19	E39	.677	17318	13.2	15	-F						FJK
ABST	10	0722E	0729	0738	S21	E39	.687	17318	13.2	16D	1F		P	0729	183	2.6	FJK
CATA	10	0730	0730	0735	S17	E40	.679	17318	13.3	5	-F	2	C	0730	39	.6	
GRP90449	10	0747+3	0750+5	0805D	S12	E08	.245	17314	10.9	18	-F				80	.8	DJ
ABST	10	0747	0750	0904D	S12	E08	.245	17314	10.9	77D	-F		P	0750	87	.9	DJ
YUNN	10	0750	0755	0805	S12	E08	.245	17314	10.9	15	-N		C		80	.9	
GRP90450	10	0800	0805+0	0813	N14	E31	.557	17321	12.7	13	-F				120	1.4	DJ
YUNN	10	0800	0805	0812	N14	E32	.570	17321	12.7	12	-N		C		161	2.0	T
ABST	10	0804E	0805	0814	N14	E30	.544	17321	12.6	10D	-F		P	0805	87	1.1	DJ
GRP90451	10	0848+9	0858+1	0911	N15	E30	.550	17321	12.6	23	-F						EJ
ABST	10	0848E	0858	0904D	N16	E30	.556	17321	12.6	16D	1F		P	0858	210	2.6	EJ
LEAR	10	0857	0859	0911	N14	E31	.557	17321	12.7	14	-F	3	C		36		
452 YUNN	10	0938	0955	1003	N14	E31	.557	17321	12.7	25	-N		C		96	1.2	T
GRP90453	10	1016+2	1026 1033	1047	S17	E39	.668	17318	13.4	31	-F						
HTPR	10	1016	1026	1047	S17	E41	.691	17318	13.5	31	-F		C	1026	20	.3	
WEND	10	1018	1033	1047	S18	E37	.649	17318	13.2	29	-N		C	1033	50	.7	
GRP90454	10	1202+3	1204+3	1215	S16	E36	.627	17318	13.2	13	-F				40	.5	
HTPR	10	1202	1204	1213	S17	E40	.679	17318	13.5	11	-F		C	1204	40	.5	
WEND	10	1203	1207	1218	S16	E36	.627	17318	13.2	15	-N		C	1207	31	.4	
CATA	10	1205	1205	1215	S16	E36	.627	17318	13.2	10	-F	2	C	1205	84	1.1	
GRP90455	10	1220+2	1222+3	1230	N14	E90	1.000	17328	17.3	10	-N				40		AEK
CATA	10	1220	1225	1230	N15	E90	1.000	17328	17.3	10	1F	2	C	1225	45		
HTPR	10	1221	1222	1228	N14	E90	1.000	17328	17.3	7	-N		C	1222	40		EK
WEND	10	1222	1224	1230	N14	E82	.991	17328	16.7	8	-B		C	1224	16		A
GRP90456	10	1257+9	1306+3 1316	1351	S06	E09	.185	17317	11.2	54	1N				220	2.2	EK
HTPR	10	1257	1306	1350	S07	E10	.209	17317	11.3	53	1N	*	C	1306	220	2.2	EK
HTPR	10	1257	1316	1350	S07	E10	.209	17317	11.3	53	1N	*	C				
WEND	10	1258		1313D	S06	E04	.122	17317	10.8	15D	1N		C	1304	231	2.4	E
ATHN	10	1306	1309	1351	S05	E09	.177	17317	11.2	45	1N	*	V	1309	223	2.4	
457 HTPR	10	1408	1415	1420	N15	E34	.604	17321	13.1	12	-F		C	1415	10	.1	
458 HOLL	10	1723	1727	1812	S07	E10	.209	17317	11.5	49	-N	3	C		62		
459 CULG	10	2154	2215	2242	S15	W24	.468	17310	9.1	48	1N		C	2215	220	2.4	F
460 CULG	10	2157	2208U	2223	S20	E31	.591	17318	13.2	26	-F		C	2208	60	.7	
461 CULG	10	2209	2215	2223	N15	E23	.460	17321	12.6	14	-N		C	2215	100	1.2	
GRP90462	10	2254+3	2256+1	2305	S16	E30	.552	17318	13.2	11	-F				60	.7	
CULG	10	2254	2256	2307	S15	E30	.546	17318	13.2	13	-N		C	2256	90	1.1	
LEAR	10	2257	2257	2302	S18	E30	.565	17318	13.2	5	-F	3	C		42		
GRP90463	11	0003+3	0019+2	0042	N14	E22	.440	17321	12.7	39	-N						K
CULG	11	0003	0019	0042	N13	E22	.432	17321	12.7	39	-N	*	C	0019	80	.9	
LEAR	11	0006	0020	0023	N14	E22	.440	17321	12.7	17	-N	*	C		27		
CULG	10	2311	2421	0043D	N15	E20	.422	17321	12.5	92D	-N	*	P	2421	170	1.9	K
464 CULG	10	2312	2313	2317	S14	W03	.243	17314	10.7	5	-N		C	2313	120	1.2	V
465 CULG	10	2320U	2343	0010U	S06	E03	.113	17317	11.2	50D	-F		C	2343	40	.4	

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466 CULG	10	2331	2334	2350	S15	E30	.546	17318	13.2	19	-F	C	2334	80	1.0	
467 CULG	10	2342	2416U	0043D	S12	W02	.207	17314	10.8	61D	-F	P	2416	140	1.4	
468 CULG	10	2346	2405	0017	N24	E11	.446	17320	11.8	31	-N	C	2405	60	.7	K
469 CULG	11	0134	0139	0153	N12	E23	.438	17321	12.8	19	-F	C	0139	40	.4	
470 YUNN	11	0157E	0157	0216E	N14	E22	.440	17321	12.7	19D	-N	P		32	.4	T
GRP90471	11	0434	0443 0500	0514	N14	E20	.414	17321	12.7	40	-N					K
CULG	11	0434	0443	0515	N14	E20	.414	17321	12.7	41	-N	C	0443	120	1.3	KT
YUNN	11	0447E	0500	0513	N14	E21	.427	17321	12.8	26D	-N	C		48	.6	T
472 CULG	11	0524	0545	0621	S04	W03	.082	17313	11.0	57	-N	C	0545	80	.8	
473 YUNN	11	0537E	0537	0557	N13	E21	.419	17321	12.8	20D	-N	P		80	.9	T
474 CULG	11	0604	0615	0638	S16	E27	.513	17318	13.3	34	-F	C	0615	20	.2	
GRP90475	11	0613+0	0616+1	0647	S07	00	.115	17317	11.3	34	-F					
LEAR	11	0613	0616	0633	S07	W01	.117	17317	11.2	20	-F	3 C		47		
CULG	11	0613	0617	0701	S08	E00	.133	17317	11.3	48	-F	C	0617	120	1.2	
476 CULG	11	0630	0632	0639	S19	E57	.856	17329	15.5	9	-F	C	0632	30	.6	G
477 YUNN	11	0640	0650	0710	N13	E20	.405	17321	12.8	30	?N	C		193	2.2	T
			IMP.1 NO : CULG MITK													
478 YUNN	11	0735	0741	0755	N13	E20	.405	17321	12.8	20	?N	C		193	2.2	T
			IMP.1 NO : CULG CATA													
GRP90479	11	0805+2	0808+3	0910	N13	E15	.342	17321	12.5	65	-B			160	1.7	D
YUNN	11	0805	0808	0812D	N13	E16	.354	17321	12.5	7D	1B	C		241	2.7	T
LEAR	11	0807	0809	0814	N14	E15	.353	17321	12.5	7	-B	3 C		73		D
ATHN	11	0809E	0811	0922	N16	E10	.327	17321	12.1	73D	-B	3 V	0811	159	1.8	
YUNN	11	0900E	0910	0910D	N13	E20	.405	17321	12.9	10D	-N	P	0910	113	1.3	T
	11	1036	1044	NO FLARE PATROL												
	11	1052	1055	NO FLARE PATROL												
GRP90480	11	1212+3	1220	1239	N13	E10	.286	17321	12.3	27	-N			140	1.5	EK
WEND	11	1212	1220	1239	N14	E16	.365	17321	12.7	27	-N	C	1220	156	1.7	
HTPR	11	1215		1220D	N13	E05	.246	17321	11.9	5D	-N	C	1218	130	1.3	EK
481 WEND	11	1336	1340	1355	N14	E15	.353	17321	12.7	19	-F	C	1340	181	2.0	
482 HOLL	11	1431E	1453	1459	N15	E14	.353	17321	12.7	28D	-F	1 C		52		
483 HOLL	11	1521	1526	1532	S11	W04	.197	17314	11.3	11	-F	2 C		112		
GRP90484	11	1528+3	1532+0	1552D	N12	E12	.295	17321	12.5	24	-N			120	1.3	
BIGB	11	1528	1532	1552	N11	E12	.284	17321	12.5	24	-N	3 C	1532	100	1.1	
HOLL	11	1531	1532	1632	N14	E12	.320	17321	12.5	61	-N	3 C		154		
485 HOLL	11	1553	1553	1604	S09	W05	.173	17317	11.3	11	-F	3 C		36		
486 RAMY	11	1603	1603	1648	S11	W04	.197	17314	11.4	45	-F	3 C		167		
GRP90487	11	1720+3	1725+2	1736	N13	E10	.286	17321	12.5	16	-N					
HOLL	11	1720	1727	1738	N13	E11	.297	17321	12.5	18	-N	2 C		165		
BIGB	11	1723	1725	1733	N13	E10	.286	17321	12.5	10	-N	3 C	1725	60	.6	
488 HOLL	11	1730	1739	1747	S07	W03	.127	17317	11.5	17	-F	2 C		31		
GRP90489	11	1908+2	1910+2	1923	N12	E10	.273	17321	12.5	15	-F			50	.5	
BIGB	11	1908	1911	1922	N12	E11	.284	17321	12.6	14	-F	3 C	1911	40	.4	
HOLL	11	1910	1910	1923	N13	E09	.277	17321	12.5	13	-N	3 C		74		
PALE	11	1910	1912	1918D	N12	E10	.273	17321	12.5	8D	-F	2 C		39		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90490	11	1914+8	1918+5	1937	N04	E83	.993	17331	18.0	23	-F						
BIGB	11	1914	1918	1938	N03	E85	.996	17331	18.2	24	-N	3	C	1918	130		
HOLL	11	1922	1923	1936	N05	E81	.988	17331	17.9	14	-F	3	C				
491 HOLL	11	2022	2023	2028	N15	E09	.305	17321	12.5	6	-N	3	C		43		
492 CULG	11	2048	2121	2132	N12	E09	.263	17321	12.5	44	?N		C	2121	230	2.4	
			IMP.1 NO : BIGB														
493 CULG	11	2110	2112	2120	N16	E69	.939	17328	17.1	10	-F		C	2112	60		
GRP90494	11	2117>9	2155+3	2254D	S16	W42	.698	17310	8.7	97	1F				310	4.3	
CULG	11	2117	2158U	2324U	S16	W43	.709	17310	8.7	127D	1N		C	2158	360	4.9	
BIGB	11	2136	2155	2254	S17	W42	.702	17310	8.8	78	1F	3	C	2155	260	3.6	
495 CULG	11	2159	2217	2235	S07	W06	.155	17317	11.5	36	-F		C	2217	70	.7	
GRP90496	11	2211+0	2216+1	2236	N03	E79	.982	17331	17.8	25	-N						
HOLL	11	2211	2216	2242	N05	E79	.982	17331	17.8	31	-N	3	C				
CULG	11	2211	2217	2229	N02	E80	.985	17331	17.9	18	-N		C	2217	40		
497 HOLL	11	2211	2213	2218	N17	E74	.965	17328	17.5	7	-F	3	C				
GRP90498	11	2219+3	2224+1 2232+0	2242	N13	E09	.277	17321	12.6	23	-N				100	1.0	F
CULG	11	2219	2301	2332	N13	E08	.268	17321	12.5	73	1N		C	2332	220	2.3	
BIGB	11	2222	2224	2234	N12	E08	.254	17321	12.5	12	-N	2	C	2234	120	1.2	
HOLL	11	2222	2225	2245	N15	E10	.314	17321	12.7	23	-B	3	C		123		
PALE	11	2228E	2232	2240D	N12	E08	.254	17321	12.5	12D	-F	2	C		34		
LEAR	11	2229E	2232U	2246	N13	E10	.286	17321	12.7	17D	-N	3	C		175		
MANI	11	2232E	2232U	2238D	N15	E09	.305	17321	12.6	6D	-F	1	V		80	.9	F
499 CULG	11	2250	2257	2307	N13	E74	.964	17328	17.5	17	-F		C	2257	40		
GRP90500	11	2301+3	2309+4	2332	N06	E86	.998	17331	18.4	31	-F				80		
BIGB	11	2301	2311	2339	N05	E90	1.000	17331	18.7	38	-N	2	C	2311	90		
LEAR	11	2304	2313	2324	N06	E79	.982	17331	17.9	20	-F	3	C		74		
MANI	11	2308E	2309	2314D	N07	E86	.998	17331	18.4	6D	-F	1	V				
501 CULG	11	2321	2323	2330	S07	W13	.251	17313	11.0	9	-F		C	2323	80	.8	
502 LEAR	12	0007	0007	0019	N14	E08	.284	17321	12.6	12	-F	3	C		30		
GRP90503	12	0015+2	0017+1	0102	N05	E83	.993	17331	18.2	47	1N						
CULG	12	0015	0018	0057	N05	E85	.996	17331	18.4	42	1N		C	0018	100		
LEAR	12	0017	0017	0107	N05	E81	.988	17331	18.1	50	1N	3	C				
GRP90504	12	0020+1	0027 0055+4	0111	N14	E74	.964	17328	17.6	51	1N						D
CULG	12	0020	0027	0044	N15	E74	.965	17328	17.6	24	1N		C	0027	80		
LEAR	12	0021	0059	0104	N14	E74	.964	17328	17.6	43	-N	3	C				
CULG	12	0047	0055	0121	N15	E74	.965	17328	17.6	34	1N		C	0055	120		
PURP	12	0056	0059	0111	N14	E74	.964	17328	17.6	15	1B		C				D
505 LEAR	12	0020	0037	0044	N13	E08	.270	17321	12.6	24	-N	3	C		58		
506 CULG	12	0123	0139	0202	N12	E07	.247	17321	12.6	39	-N		C	0139	150	1.5	FT
507 CULG	12	0140	0146	0155	S20	E12	.387	17318	13.0	15	-B		C	0146	80	.9	H
508 LEAR	12	0343	0345	0347	S06	W17	.306	17313	10.9	4	-F	3	C		22		
509 LEAR	12	0348	0353	0409	N05	E79	.982	17331	18.1	21	-F	3	C				
GRP90510	12	0459+1	0502+1	0512	N05	E79	.982	17331	18.1	13	1B				90		F
CULG	12	0459	0502	0512	N05	E80	.985	17331	18.2	13	1B		C	0502	70		
PEKG	12	0500	0503	0509	N05	E79	.982	17331	18.1	9	1B		C	0503	118		F
LEAR	12	0500	0502	0526	N06	E78	.979	17331	18.1	26	1B	3	C				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
90511	12	0501+2	0504+3	0524	N13	E73	.959	17328	17.7	23	-F						
CULG	12	0501	0507	0527	N13	E74	.964	17328	17.8	26	-F		C	0507	30		
LEAR	12	0503	0504	0520	N14	E72	.955	17328	17.6	17	-F	3	C				
512 CULG	12	0549	0557	0624	S30	W15	.541	17315	11.1	35	-N		C	0557	60	.7	G
GRP90513	12	0559+5	0602+6	0619	N13	E04	.243	17321	12.5	20	-N						
CULG	12	0559	0608U	0628	N12	E04	.227	17321	12.5	29	-N		C	0608	100	1.0	FT
LEAR	12	0601	0602	0619	N13	E04	.243	17321	12.6	18	-N	3	C		44		
PURP	12	0604	0607	0612	N13	E03	.239	17321	12.5	8	-N		C				E
514 CULG	12	0623	0630	0652	S08	W10	.216	17317	11.5	29	-N		C	0630	120	1.2	
515 CULG	12	0646	0650	0703	N18	E68	.935	17328	17.4	17	-F		C	0650	20		
516 CULG	12	0712	0714	0723	N02	E79	.982	17331	18.2	11	-F		C	0714	40		T
517 CULG	12	0714	0721	0731	S10	W18	.346	17314	11.0	17	-F		C	0721	40	.4	
518 CULG	12	0725	0728	0735	S16	W42	.697	17310	9.2	10	-N		C	0728	70	1.0	
519 CULG	12	0725	0730	0822	N12	E03	.222	17321	12.5	57	-N		C	0730	80	.8	FKT
520 CULG	12	0744	0748	0802U	N02	E79	.982	17331	18.2	18D	-F		C	0748	40		T
GRP90521	12	0751+3	0756+4	0819	S34	E44	.799	17326	15.6	28	-B				90	1.5	D
PURP	12	0751	0800	0804	S34	E40	.768	17326	15.3	13	1B		C				D
CULG	12	0752	0756	0816	S35	E45	.812	17326	15.7	24	-B		C	0756	100	1.7	
LEAR	12	0754	0758	0821	S35	E44	.804	17326	15.6	27	-N	3	C		94		
ATHN	12	0755E	0800	0827	S29	E58	.884	17326	16.7	32D	-B	2	V	0800	80	1.4	
522 LEAR	12	0833	0840	0845	N04	E72	.952	17331	17.8	12	-F	3	C				
523 WEND	12	1128E		1150	S33	E45	.802	17326	15.9	22D	-F		C	1128	56	1.0	
524 WEND	12	1155	1200	1213	N14	W01	.251	17321	12.4	18	-F		C	1200	88	.9	
525 HTPR	12	1402	1405	1409	N08	W03	.157	17324	12.4	7	-F		C	1405	20	.2	EK
526 HTPR	12	1429	1430	1438	S17	E14	.367	17318	13.7	9	-N		V	1430	30	.3	E
	12	1520	1700	NO FLARE PATROL													
GRP90527	12	1540+1	1542+1	1558	N04	E69	.934	17331	17.8	18	-B				70		D
BOUL	12	1540E	1543	1555	N03	E70	.940	17331	17.9	15D	-B	3	C		80		
RAMY	12	1541	1542	1600	N06	E69	.935	17331	17.8	19	-B	3	C		69		D
GRP90528	12	1546	1555+6 1620	1648	N16	E63	.901	17328	17.4	62	1N						
RAMY	12	1546	1601	1658	N17	E65	.916	17328	17.5	72	2N	3	C		373		
BOUL	12	1548E	1555	1610	N14	E59	.867	17328	17.1	22D	1N	3	C		140		
BOUL	12	1616E	1620	1637	N17	E62	.895	17328	17.3	21D	-F	3	C		30		
GRP90529	12	1654+1	1700+3	1815	N13	E03	.239	17321	12.9	81	1B				260	2.7	
BOUL	12	1654E	1700	1750D	N13	E03	.239	17321	12.9	56D	1B	3	C		320		
RAMY	12	1655	1703	1815	N14	E03	.255	17321	12.9	80	-B	3	C		201		
	12	1707	1716	NO FLARE PATROL													
GRP90530	12	1716+4	1719+3	1729	N04	E69	.934	17331	17.9	13	-B				60		
RAMY	12	1716	1719	1724D	N05	E68	.928	17331	17.8	8D	-B	3	C		90		
BOUL	12	1720	1722	1729	N03	E70	.940	17331	18.0	9	-B	3	C		40		
	12	1734	1836	NO FLARE PATROL													
	12	1949	2003	NO FLARE PATROL													
531 CULG	12	2045	2049	2055	N03	E68	.928	17331	18.0	10	-F		C	2049	40	1.0	JT
GRP90532	12	2058>9	2110+3	2130D	N12	W06	.239	17321	12.4	32	-B						FK
CULG	12	2058	2113	2215	N13	W05	.248	17321	12.5	77	1B		C	2113	340	3.5	FK
HOLL	12	2109	2110	2130	N12	W08	.256	17321	12.3	21	-N	3	C		90		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
533 CULG	12	2108	2121	2136	S13	E56	.837	17330	17.1	28	?N		C	2121	160	2.9	
			IMP.1 NO : HOLL														
534 CULG	12	2134	2137U	2137D	S16	E06	.286	17318	13.3	3D	-N		P	2137	80	.8	
	12	2138	2147	NO FLARE PATROL													
GRP90535	12	2206	2216	2236	N04	E66	.914	17331	17.9	30	-N						
CULG	12	2206	2216	2236	N05	E68	.928	17331	18.0	30	-N		C	2216	60		
LEAR	12	2221E	2221	2236	N03	E65	.907	17331	17.8	15D	1N	2	C		224		
536 CULG	12	2229	2236	2245	S20	E02	.335	17318	13.1	16	-F		C	2236	80	.8	
GRP90537	12	2251>9	2257 2304	2315	N14	W01	.251	17321	12.9	24	-N						
CULG	12	2251	2257	2309	N14	W05	.264	17321	12.6	18	-N		C	2257	60	.6	T
LEAR	12	2303	2304	2320	N14	E02	.253	17321	13.1	17	-N	3	C		41		
538 CULG	12	2312	2322	2349	S00	E69	.934	17331	18.1	37	-N		C	2322	60		
539 CULG	12	2331	2335	2343	N12	W09	.265	17321	12.3	12	-F		C	2335	40	.4	H
540 CULG	12	2348	2357	0012	S13	E43	.700	17329	16.2	24	-N		C	2357	120	1.7	
541 CULG	12	2355	2358	0025	N18	E65	.917	17328	17.9	30	?N		C	2358	120	3.0	
			IMP.1 NO : PURP														
GRP90542	12	2358+3	0002+3	0018D	S15	W57	.849	17310	8.7	20	-N						F
LEAR	13	0001	0002	0018	S16	W57	.850	17310	8.7	17	-F	3	C		39		
CULG	12	2358	2405	0145	S14	W58	.856	17310	8.6	107	1N		C	2405	130	2.1	F
543 CULG	13	0003	0014	0032	N15	W07	.294	17321	12.5	29	-N		C	0014	130	1.4	FT
544 LEAR	13	0039	0040	0053	N14	E01	.253	17321	13.1	14	-N	3	C		47		
545 CULG	13	0059	0103	0112	S15	E53	.812	17330	17.0	13	-F		C	0103	60	1.1	
546 PEKG	13	0118	0120	0123	N12	W05	.235	17321	12.7	5	-N		C	0118	63	.7	E
GRP90547	13	0125+5	0131+4	0148	N11	W06	.226	17324	12.6	23	-N				120	1.2	
PURP	13	0125	0132	0145	N12	W06	.241	17324	12.6	20	1B		C				
CULG	13	0126	0133	0207	N12	W07	.249	17324	12.5	41	-N		C	0133	120	1.3	FT
LEAR	13	0129	0135	0151	N11	W05	.219	17324	12.7	22	-N	3	C		81		
PEKG	13	0130	0131	0145	N11	W06	.226	17324	12.6	15	-N		C	0130	155	1.6	E
548 CULG	13	0159	0205	0224	S08	W63	.892	17310	8.4	25	-F		C	0205	70	1.6	
GRP90549	13	0212+8	0221+1	0228	N03	E62	.884	17331	17.7	16	-F				40	.9	D
CULG	13	0212	0221	0232	N02	E62	.883	17331	17.7	20	-F		C	0221	30	.4	
PEKG	13	0220	0222	0224	N04	E63	.892	17331	17.8	4	-F		C	0222	50	1.1	D
GRP90550	13	0235+2	0238+1	0247	S15	E53	.812	17330	17.1	12	-N						D
PURP	13	0235	0239	0248	S17	E53	.816	17330	17.1	13	-N		C				D
CULG	13	0235	0238	0247	S15	E52	.802	17330	17.0	12	-N		C	0238	80	1.4	
LEAR	13	0237	0239	0245	S15	E53	.812	17330	17.1	8	-F	3	C		30		
551 VORO	13	0256	0256	0259	N12	W11	.287	17321	12.3	3	-F		C	0256	45	.5	DH
GRP90552	13	0258>9	0313+3 0322+0	0339	N02	E63	.891	17331	17.8	41	1N						
LEAR	13	0258	0306	0345	N03	E63	.892	17331	17.8	47	-N	3	C		68		
CULG	13	0303	0313	0346	N02	E62	.883	17331	17.8	43	1N		C	0313	90	2.1	F
PURP	13	0309	0316	0333	N02	E63	.891	17331	17.9	24	1B		C				E
YUNN	13	0310	0322	0327	N02	E68	.927	17331	18.2	17	1N		C		145		
PURP	13	0321	0322	0333	N02	E65	.907	17331	18.0	12	-B		C				E
GRP90553	13	0319+2	0321+2	0334	S16	E40	.673	17329	16.1	15	-N				70	.9	EGK
CULG	13	0319	0321	0335	S16	E40	.673	17329	16.1	16	-N		C	0321	80	1.1	
VORO	13	0321	0323	0340	S14	E40	.666	17329	16.1	19	-F		C	0323	63	.8	EK
PURP	13	0321	0322	0333	S16	E41	.685	17329	16.2	12	-B		C				EG
YUNN	13	0322E	0322	0327	S16	E40	.673	17329	16.1	5D	-N		P		64	.9	G

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90554	13	0349+4	0357+3	0412	N13	E61	.883	17331	17.7	23	-F				60	1.3	J
CULG	13	0349	0357	0413	N13	E61	.883	17331	17.7	24	-N		C	0357	60	1.4	JT
LEAR	13	0353	0400	0410	N14	E61	.884	17331	17.7	17	-F	3	C		68		
GRP90555	13	0433+7	0442+1 0503+1	0549	N15	E60	.877	17331	17.7	76	2B				380	7.9	FHKU
LEAR	13	0433	0443	0519	N15	E55	.834	17331	17.3	46	2N	3	C		438		
CULG	13	0438U	0442	0524	N13	E59	.866	17331	17.6	46D	2B		C	0442	360	7.2	H
MITK	13	0440	0443	0620	N13	E60	.875	17331	17.7	100	2N		C	0443	330	6.9	FHKU
PURP	13	0440	0450	0550	N15	E60	.877	17331	17.7	70	2B		C	0450	302	6.2	KW
YUNN	13	0441E	0504	0620	N16	E63	.901	17331	17.9	99D	1B		C		193	4.6	EFKT
PEKG	13	0501	0503	0540	N18	E63	.904	17331	17.9	39	1N		C	0503	97	2.2	F
GRP90556	13	0445+4	0449+4	0504	N12	W07	.249	17324	12.7	19	-N				160	1.7	E
LEAR	13	0430	0449	0511	N11	W07	.234	17324	12.7	41	-N	*	C		148		
CULG	13	0445	0450	0507	N12	W08	.257	17324	12.6	22	1N		C	0450	190	2.0	T
MITK	13	0448	0450	0501	N10	W05	.203	17324	12.8	13	-F	*	C	0450			E
PURP	13	0448	0452	0457	N12	W07	.249	17324	12.7	9	1F		C				
YUNN	13	0449	0453	0504	N12	W06	.241	17324	12.8	15	-N		C		129	1.4	
557 LEAR	13	0544	0544	0553	N05	E61	.876	17331	17.8	9	-F	3	C		31		
GRP90558	13	0544+4	0550+1 0558	0614	N13	W07	.264	17321	12.7	30	1F				210	2.2	
CULG	13	0544	0558	0648	N13	W05	.250	17321	12.9	64	-F		C	0558	160	1.7	FT
LEAR	13	0546	0550	0607	N13	W08	.272	17321	12.6	21	-F	3	C		149		
YUNN	13	0547	0550	0620	N13	W07	.264	17321	12.7	33	1N		C		274	2.9	E
PURP	13	0548	0551	0606	N12	W08	.257	17321	12.6	18	1F		C				
559 PURP	13	0604	0609	0624	N13	E07	.264	17323	13.8	20	-N		C				
560 LEAR	13	0650	0651	0659	N07	E63	.893	17331	18.0	9	-F	3	C		29		
561 CULG	13	0653	0701	0709	S08	W28	.483	17317	11.2	16	-F		C	0701	60	.7	F
562 CULG	13	0656	0701	0716	S15	E50	.782	17330	17.0	20	-F		C	0701	40	.7	
GRP90563	13	0704+3	0708+4	0720	N04	E62	.884	17331	17.9	16	-F						
CULG	13	0704	0712	0720	N02	E62	.883	17331	17.9	16	-N		C	0712	80	1.9	
LEAR	13	0707	0708	0719	N07	E63	.893	17331	18.0	12	-F	3	C		25		
GRP90564	13	0709+6	0717+4	0729	N13	W10	.290	17321	12.5	20	1N				220	2.3	E
LEAR	13	0709	0721	0731	N13	W08	.272	17321	12.7	22	-N	*	C		164		
CULG	13	0710	0717	0721D	N11	W10	.264	17321	12.5	11D	1N		C	0717	250	2.6	T
CATA	13	0715	0720	0735	N12	W09	.267	17321	12.6	20	1F	*	C	0720	253	2.7	
PURP	13	0715	0717	0734	N13	W10	.290	17321	12.6	19	1N	*	C				
PEKG	13	0717E	0717	0717D	N13	W11	.300	17321	12.5		1N	*	P	0717	210	2.3	E
565 YUNN	13	0759E	0759	0759D	N02	E60	.866	17331	17.8		-N		P		64	1.3	E
566 LEAR	13	0809	0809	0812	N14	E66	.920	17331	18.3	3	-F	3	C		21		
567 LEAR	13	0822	0825	0837	N07	E62	.886	17331	18.0	15	-F	3	C		47		
GRP90568	13	0900	0900 0921	0923	N13	W09	.281	17321	12.7	23	-F						
LEAR	13	0900	0900	0923	N13	W09	.281	17321	12.7	23	-F	3	C		33		
KANZ	13	0903E	0903	0911	N15	W09	.309	17321	12.7	8D	-F	1					
HTPR	13	0916	0921	0930	N12	W04	.229	17321	13.1	14	-F		C	0921	10	.1	
GRP90569	13	0919+1	0921+5	0929	N07	E62	.886	17331	18.0	10	-N				80	1.7	E
LEAR	13	0919	0922	0929	N07	E61	.877	17331	18.0	10	-N	3	C		62		
KANZ	13	0919	0923	0931	N06	E60	.868	17331	17.9	12	-N	2					
YUNN	13	0920	0924	0928	N05	E60	.868	17331	17.9	8	-N		C		80	1.7	E
HTPR	13	0920	0921	0924	N07	E65	.908	17331	18.3	4	-F		C	0921	60	1.4	E
ATHN	13	0923E	0926	0945	N08	E65	.909	17331	18.3	22D	1B	3	V	0926	127	3.0	
GRP90570	13	0926+5	0935+4	0943	S13	W31	.546	17314	11.1	17	-F						E
HTPR	13	0926	0939	0943	S13	W32	.560	17314	11.0	17	-F		C	0939	20	.2	E
KANZ	13	0931	0935	0942	S14	W31	.551	17314	11.1	11	-F	2					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90571	13	0942+2	0946+2	0957	N05	E60	.868	17331	17.9	15	-F						
KANZ	13	0942	0946	0957	N05	E60	.868	17331	17.9	15	-F	*					
LEAR	13	0944	0948	1001	N07	E61	.877	17331	18.0	17	-F	*	C		66		
YUNN	13	0955E		0957	N02	E60	.866	17331	17.9	2D	-N	*	P	0955	96	1.9	
GRP90572	13	1001+1	1002+1	1012	S12	W33	.569	17314	10.9	11	-F						
KANZ	13	1001	1003	1013	S13	W33	.573	17314	10.9	12	-F	2					
LEAR	13	1002	1002	1010	S12	W33	.569	17314	10.9	8	-F	3	C		24		
GRP90573	13	1010+2	1017+1	1026	N10	E63	.895	17331	18.1	16	-F						
KANZ	13	1010	1017	1029	N11	E64	.904	17331	18.2	19	-F	2					
LEAR	13	1012	1018	1023	N09	E63	.895	17331	18.1	11	-F	3	C		40		
GRP90574	13	1017+3	1017+3	1025	N15	W06	.288	17321	13.0	8	-F						
KANZ	13	1017	1017	1025	N15	W06	.288	17321	13.0	8	-N	3					
LEAR	13	1018	1018	1024	N16	W06	.303	17321	13.0	6	-F	3	C		21		
CATA	13	1020	1020	1035	N15	W06	.288	17321	13.0	15	1F	2	C	1020	225	2.4	
575 KANZ	13	1137	1141	1145	N13	W14	.333	17321	12.4	8	-F	3					
576 CATA	13	1215	1215	1240	S13	W90	1.000	17312	6.8	25	2F	2	C	1215	140		A
	13	1401	1437	NO FLARE PATROL													
577 RAMY	13	1438	1438	1443	N12	W13	.310	17321	12.6	5	-N	3	C		29		
	13	1444	1514	NO FLARE PATROL													
578 BIGB	13	1805	1808	1825	S09	E69	.935	17332	18.9	20	-F	2	C	1808	60		
579 BIGB	13	2037	2043	2057	S16	E45	.731	17330	17.2	20	-F	2	C	2043	90	1.3	
580 LEAR	13	2313	2313	2328	S13	W41	.675	17314	10.9	15	-F	3	C		39		
581 LEAR	13	2317	2317	2330	N11	E58	.855	17331	18.3	13	-N	3	C		23		
582 LEAR	13	2339	2345	0001	N04	E52	.790	17331	17.9	22	-N	3	C		105		
583 CULG	14	0117U	0120U	0136D	N09	E50	.774	17331	17.8	19D	-N		P	0120	40	.6	
584 LEAR	14	0220	0229	0237	S08	E62	.884	17332	18.7	17	-F	3	C		23		
GRP90585	14	0221+2	0223+3	0234	N09	E50	.774	17331	17.8	13	-N						H
LEAR	14	0221	0225	0238	N09	E50	.774	17331	17.8	17	1N	3	C		156		
MITK	14	0222	0223	0234	N09	E51	.785	17331	17.9	12	-N		C	0223			EH
MANI	14	0223E	0224U	0228D	N07	E54	.813	17331	18.1	5D	-N	1	V		80	1.4	
PEKG	14	0223	0226	0229	N09	E49	.763	17331	17.8	6	-F		C	0226	29	.5	D
GRP90586	14	0300+4	0306+7	0326	N16	E54	.828	17331	18.2	26	-N				60	1.1	E
MITK	14	0300	0308	0409	N16	E54	.828	17331	18.2	69	-F		C	0308			E
PEKG	14	0304	0313	0317	N16	E58	.863	17331	18.5	13	-F		C	0314	25	.5	E
LEAR	14	0304	0306	0326	N16	E55	.837	17331	18.3	22	-B	3	C		52		
YUNN	14	0306E		0307D	N15	E54	.826	17331	18.2	1D	-N		P	0307	80	1.5	E
587 LEAR	14	0310	0311	0322	N04	E48	.745	17331	17.7	12	*-N	3	C		40		
GRP90588	14	0526	0529	0540	S08	E67	.921	17332	19.3	14	-N						D
LEAR	14	0526	0529	0540	S08	E72	.951	17332	19.6	14	-N	3	C		93		
YUNN	14	0527E		0527D	S08	E62	.884	17332	18.9		-N		P	0527	16	.3	D
589 LEAR	14	0548	0552	0555	N14	E54	.824	17331	18.3	7	-F	3	C		24		
590 CULG	14	0638	0646	0701	N18	E38	.667	17328	17.1	23	-F		C	0646	40	.5	
GRP90591	14	0746	0752 0800	0818	N12	E55	.830	17331	18.4	32	-F						EJ
CULG	14	0746	0752	0814	N13	E58	.858	17331	18.7	28	-F		C	0752	30	.6	
KANZ	14	0755E		0818	N15	E55	.835	17331	18.5	23D	-F	2					
YUNN	14	0758	0800	0805	N12	E58	.857	17331	18.7	7	-N		C		48	1.0	EJ
CULG	14	0812	0814	0818	N06	E48	.748	17331	17.9	6	-F		C	0814	20	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
592 LEAR	14	0837	0837	0842	S16	E36	.624	17330	17.1	5	-F	3	C		22		
GRP90593	14	0853+2	0902+6	0912	N17	E35	.626	17328	17.0	19	-N				110	1.4	EKW
KANZ	14	0853	0902	0913	N18	E35	.632	17328	17.0	20	-N	3					
YUNN	14	0855	0905	0908	N17	E37	.650	17328	17.1	13	-B		C		113	1.5	EKW
CATA	14	0900E	0905	0910	N17	E36	.638	17328	17.1	10D	1F	2	P	0905	197	2.6	
LEAR	14	0904E	0908U	0918	N18	E35	.632	17328	17.0	14D	-N	3	C		74		
GRP90594	14	0937+3	0941+1	0951	S13	W53	.808	17314	10.4	14	-F						D
KANZ	14	0937	0942	1005	S13	W53	.808	17314	10.4	28	-F	2					
YUNN	14	0940	0941	0946	S10	W54	.814	17314	10.4	6	-F		C		64	1.1	D
LEAR	14	0940	0941	0951	S13	W46	.733	17314	11.0	11	-F	3	C		19		
GRP90595	14	0942+4	0946+9	1010	N05	E45	.711	17331	17.8	28	-N				110	1.6	Z
KANZ	14	0942	0949	1001	N05	E44	.699	17331	17.7	19	-N	3					
LEAR	14	0944	0949U	1016	N06	E46	.724	17331	17.9	32	-B	3	C		109		D
CATA	14	0945E	0955	1025	N03	E44	.696	17331	17.7	40D	-F	2	P	0955	112	1.6	
ATHN	14	0945E	0950	1000D	N09	E40	.656	17331	17.4	15D	-B	3	V	0950	95	1.4	
YUNN	14	0946	0946	1004	N03	E46	.721	17331	17.9	18	-N		P	0954	129	1.9	EZ
596 YUNN	14	0943	0944	0947	N12	E56	.839	17331	18.6	4	-N		C	0945	16	.3	D
	14	1041	1046	NO FLARE PATROL													
597 ATHN	14	1055E	1058	1130	N09	E40	.656	17331	17.5	35D	-B	3	V	1058	64	1.0	
GRP90598	14	1309+2	1313+2	1326	N05	E42	.674	17331	17.7	17	-N						
KANZ	14	1309	1313	1325	N05	E42	.674	17331	17.7	16	-N	3					
RAMY	14	1311	1315	1326	N05	E42	.674	17331	17.7	15	-N	3	C		48		
599 RAMY	14	1404	1410	1421	N15	E51	.797	17331	18.4	17	1N	3	C		211		
600 RAMY	14	1440	1446	1534	N05	E41	.661	17331	17.7	54	-N	3	C		27		
601 RAMY	14	1505	1508	1520	N20	E49	.791	17331	18.3	15	1N	3	C		263		
GRP90602	14	1602>9	1616+1	1634	N15	E50	.787	17331	18.4	32	-N				70	1.1	
HOLL	14	1602	1616	1617D	N15	E50	.787	17331	18.4	15D	-N	3	C		70		
RAMY	14	1611	1617	1638	N15	E48	.766	17331	18.3	27	-N	3	C		89		
BIGB	14	1612	1617	1629	N15	E52	.806	17331	18.6	17	-F	3	C	1617	60	1.0	
GRP90603	14	1616+0	1617+2	1636	S08	W52	.791	17313	10.8	20	-F				60	1.0	
RAMY	14	1616	1619	1636	S08	W51	.781	17313	10.9	20	-F	3	C		38		
BIGB	14	1616	1617	1636	S08	W52	.791	17313	10.8	20	-F	3	C	1617	80	1.3	
HOLL	14	1616	1617	1617D	S11	W54	.815	17313	10.6	1D	-F	3	C		50		
GRP90604	14	1722+1	1723+2	1748	N08	E67	.923	17333	19.7	26	-F						
HOLL	14	1722	1723	1749	N08	E66	.916	17333	19.7	27	-F	3	C		43		
BIGB	14	1723	1725	1747	N08	E69	.936	17333	19.9	24	1F	3	C	1725	130		
GRP90605	14	1735+4	1745+7	1828	N05	E41	.661	17331	17.8	53	1B				200	2.7	D
RAMY	14	1735	1752	1828	N05	E41	.661	17331	17.8	53	1B	3	C		202		D
HOLL	14	1736	1750	1850	N05	E41	.661	17331	17.8	74	1B	3	C		211		
BIGB	14	1739	1745	1810	N05	E42	.674	17331	17.9	31	1B	3	C	1745	190	2.6	
GRP90606	14	1858+1	1859+2	1906	N16	W29	.547	17321	12.6	8	-N				40	.5	
BIGB	14	1858	1901	1906	N17	W29	.554	17321	12.6	8	-F	3	C	1901	100	1.2	
HOLL	14	1859	1859	1908	N16	W29	.547	17321	12.6	9	-N	3	C		39		
RAMY	14	1859	1859	1906	N16	W29	.547	17321	12.6	7	-N	3	C		39		
GRP90607	14	1932+1	1933+2	1944	N06	E37	.609	17331	17.6	12	-N				60	.8	
BIGB	14	1932	1933	1940	N05	E38	.621	17331	17.7	8	-N	3	C	1933	60	.8	
HOLL	14	1932	1934	1944	N06	E37	.609	17331	17.6	12	-B	3	C		68		
RAMY	14	1933	1935	1951	N06	E37	.609	17331	17.6	18	-N	3	C		41		
608 CULG	14	2056	2100	2103	N05	E36	.594	17331	17.6	7	-N		C	2100	80	1.0	JT
609 HOLL	14	2109	2110	2123	N05	E40	.648	17331	17.9	14	-F	3	C		34		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90610	14	2158+5	2208 2222+2	2311	N07	E38	.625	17331	17.8	73	1N				160	2.1	FHJK
CULG	14	2158	2224	2355	N04	E39	.633	17331	17.8	117	1N		C	2224	210	2.7	FKJ
HOLL	14	2203	2238	2311	N10	E37	.621	17331	17.7	68	-B	3	C		159		D
HOLL	14	2203	2208	2209	N06	E36	.596	17331	17.6	6	-B	3	C		159		D
BIGB	14	2219	2222	2237	N05	E38	.621	17331	17.8	18	-F	3	C	2222	120	1.6	
CULG	14	2235	2250	2323	N10	E38	.634	17331	17.8	48	1B		C	2250	160	2.1	H
611 CULG	14	2159	2207	2223	N15	E48	.766	17331	18.5	24	-F		C	2207	60	.9	F
612 LEAR	14	2339	2345	0001	N04	E52	.790		18.9	22	-N	3	C		105		
613 CULG	14	2349E	2349U	2359	N18	W31	.585	17321	12.7	10D	-F		P	2349	60	.7	
GRP90614	15	0005+0	0008+2	0024	N18	E27	.539	17328	17.0	19	-B				130	1.5	EJ
CULG	15	0005U	0010	0030	N19	E28	.558	17328	17.1	25D	-B		C	0010	130	1.6	
LEAR	15	0005	0008	0024	N18	E27	.539	17328	17.0	19	-N	3	C		161		
VORO	15	0008E		0018	N18	E26	.527	17328	17.0	10D	-B		P	0009	108	1.3	EJ
615 CULG	15	0011	0022	0036	N18	W31	.586	17321	12.7	25	-F		C	0022	130	1.6	F
GRP90616	15	0050+2	0052+3 0134	0150	N06	E38	.623	17331	17.9	60	-F				50	.6	F
CULG	15	0050	0055	0147	N04	E37	.606	17331	17.8	57	-F		C	0055	50	.6	FT
LEAR	15	0052	0052	0152	N05	E38	.621	17331	17.9	60	-F	3	C		60		
CULG	15	0130	0134	0139	N09	E38	.631	17331	17.9	9	-N		C	0134	30	.4	
617 CULG	15	0100	0107	0110	N18	W31	.586	17321	12.7	10	-F		C	0107	20	.2	
GRP90618	15	0111+2	0114+1	0120	N08	W22	.401		13.4	9	-F				45	.5	D
CULG	15	0111	0114	0119	N08	W22	.401		13.4	8	-N		C	0114	40	.4	
VORO	15	0113	0115	0121	N09	W23	.422		13.3	8	-F		C	0115	45	.5	D
619 CULG	15	0122	0126	0131	S15	W30	.542	17318	12.8	9	-F		C	0126	40	.5	
620 CULG	15	0159	0206	0235	N05	E43	.686	17331	18.3	36	-F	*	C	0206	70	1.0	FKT
621 CULG	15	0213	0216	0224	S17	E28	.529	17330	17.2	11	-F		C	0216	80	1.0	
GRP90622	15	0227+1	0228+0	0237	N13	E44	.717	17331	18.4	10	-F				40	.6	
CULG	15	0227	0228	0233	N13	E44	.717	17331	18.4	6	-F	*	C	0228	30	.5	T
LEAR	15	0228	0228	0241	N14	E44	.720	17331	18.4	13	-F	*	C		51		
623 CULG	15	0250	0251	0303	N09	E36	.605	17331	17.8	13	-F		C	0251	50	.6	T
GRP90624	15	0313+0	0314+1	0323	N12	E41	.678	17331	18.2	10	-F				90	1.2	
CULG	15	0313	0315	0323	N11	E40	.663	17331	18.1	10	-N		C	0315	100	1.3	T
LEAR	15	0313	0314	0323	N14	E43	.708	17331	18.4	10	-F	3	C		77		
625 LEAR	15	0313	0314	0321	N05	E37	.608	17331	17.9	8	-F	3	C		57		
626 CULG	15	0316	0326	0345	N18	E30	.574	17328	17.4	29	?N		C	0326	170	2.0	F
			IMP.1 NO : LEAR VORO YUNN														
627 CULG	15	0326	0407	0412	N18	W31	.586	17321	12.8	46	-N		C	0407	120	1.5	KF
GRP90628	15	0339+8	0348+4	0413	S06	W58	.849	17313	10.8	34	-N						E
CULG	15	0339	0348	0500	S06	W57	.840	17313	10.9	81	1B		C	0348	180	3.6	
LEAR	15	0344	0350	0413	S06	W58	.849	17313	10.8	29	-F	3	C		56		
YUNN	15	0347	0352	0357	S04	W58	.848	17313	10.8	10	-N		P		32	.6	E
629 CULG	15	0349	0350	0356	N04	E35	.578	17331	17.8	7	-N		C	0350	40	.5	T
630 CULG	15	0431U	0447	0537	N20	W23	.511	17323	13.5	66D	-N		C	0447	120	1.4	L
631 LEAR	15	0546	0554	0604	N04	E33	.550	17331	17.7	18	-F	3	C		103		
632 LEAR	15	0550	0602	0604	S10	E46	.727	17332	18.7	14	-F	3	C		27		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90633	15	0625+3	0628 0636	0651	N03	E32	.533	17331	17.7	26	-F					
CULG	15	0625	0636	0701	N04	E33	.550	17331	17.7	36	-F	C	0636	100	1.2	T
LEAR	15	0628	0628	0640	N03	E32	.533	17331	17.7	12	-F	3 C		42		
GRP90634	15	0712+7	0721+1	0727	N03	E35	.576	17331	17.9	15	-F			40	.5	
LEAR	15	0712	0721	0728	N05	E35	.580	17331	17.9	16	-F	3 C		43		
CULG	15	0719	0722	0725	N02	E35	.575	17331	17.9	6	-N	C	0722	40	.5	T
GRP90635	15	0738+2	0741+0	0814D	N04	E34	.564	17331	17.9	36	-F			130	1.6	
CULG	15	0738	0741	0747D	N05	E34	.566	17331	17.9	9D	-N	C	0741	160	1.9	T
LEAR	15	0740	0741	0814D	N04	E34	.564	17331	17.9	34D	-F	3 C		105		
GRP90636	15	0830E	0840 0851	0916D	N05	E34	.566	17331	17.9	46	2F					
CATA	15	0830E	0840	0915D	N05	E35	.580	17331	18.0	45D	2F	2 P	0840	450	5.7	
LEAR	15	0848E	0851U	0916D	N05	E34	.566	17331	17.9	28D	-N	3 C		126		
637 YUNN	15	0848E		0859	S08	E47	.736	17332	18.9	11D	-F	P	0848	32	.5	E
638 CATA	15	1145	1145	1155	S09	E47	.737	17332	19.0	10	-F	2 C	1145	56	.9	
639 CATA	15	1205	1210	1230	N04	E90	1.000	17338	22.3	25	1F	2 C	1210	56		
	15	1431	1457	NO FLARE PATROL												
640 HOLL	15	1519	1520	1546	N09	E35	.591	17331	18.3	27	-N	3 C		42		
641 HOLL	15	1652	1702	1723	N14	E37	.637	17331	18.5	31	-N	3 C		90		
642 HOLL	15	1715	1717	1730	S16	E20	.420	17330	17.2	15	-N	3 C		60		
GRP90643	15	1828+4	1838+2 1923+4	2015	N13	E31	.555	17331	18.1	107	1B			410	4.9	
HOLL	15	1828	1840	2026	N15	E35	.617	17331	18.4	118	1N	2 C		487		
BIGB	15	1832	1838	2004	N15	E35	.617	17331	18.4	92	1N	3 C	1838	325	4.1	
BIGB	15	1920	1923	1957	N11	E28	.504	17331	17.9	37	2B	3 C	1923	450	5.3	
HOLL	15	1920	1927	1952	N11	E28	.504	17331	17.9	32	1B	2 C		321		
GRP90644	15	1913+6	1927+0	2006	S16	E19	.408	17330	17.2	53	-B			170	1.9	
HOLL	15	1913	1927	2016	S16	E19	.408	17330	17.2	63	1B	* C		229		
BIGB	15	1919	1927	1955	S17	E20	.430	17330	17.3	36	-N	* C	1927	110	1.2	
GRP90645	15	1915>9	1936 2031	2120	N15	W35	.617	17321	13.2	125	-N					
HOLL	15	1915	1936	2124	N15	W36	.629	17321	13.1	129	-N	2 C		81		
CULG	15	2012	2031	2115	N15	W34	.604	17321	13.3	63	-N	C	2031	40	.5	
GRP90646	15	2005>9	2005 2055	2109	N13	E30	.542	17331	18.1	64	-F					
CULG	15	2005E	2005E	2114	N12	E35	.603	17331	18.5	69D	-N	* P	2005	90	1.1	B
CULG	15	2049	2055	2103	N15	E25	.491	17331	17.7	14	-F	* C	2055	30	.3	
647 HOLL	15	2102	2106	2110	N04	E27	.460	17331	17.9	8	-F	* C		29		
GRP90648	15	2205	2212 2231	2231D	N07	E23	.411	17331	17.6	26	-F					K
CULG	15	2205	2205	2208	N07	E23	.411	17331	17.6	3	-F	C	2205	20	.2	T
CULG	15	2207	2212	2215	N09	E23	.422	17331	17.6	8	-F	C	2212	50	.6	TK
CULG	15	2210	2231U	2300U	N06	E22	.391	17331	17.6	50D	-F	C	2231	60	.7	T
649 CULG	15	2244	2305	2320	N10	E23	.428	17331	17.7	36	-F	C	2305	50	.6	TK
650 CULG	15	2255	2256	2310	S12	W38	.633	17318	13.1	15	-N	C	2256	90	1.2	
651 CULG	15	2321	2340	2358	S08	E38	.623	17332	18.8	37	-N	C	2340	120	1.6	H
652 CULG	15	2329	2338	2354U	S16	E15	.361	17330	17.1	25D	-N	C	2338	130	1.3	T
653 CULG	15	2345	2347	2357	S04	W65	.906	17313	11.1	12	-F	C	2347	60	1.4	

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	15	2359	0000	NO FLARE PATROL													
	16	0000	0001	NO FLARE PATROL													
GRP90654	16	0059+5	0102+4	0120	N05	E24	.418	17331	17.8	21	-N				90	1.0	EJL
LEAR	16	0059E	0102	0128	N05	E25	.433	17331	17.9	29D	-B	3	C		183		
CULG	16	0059	0104	0120	N05	E25	.433	17331	17.9	21	-N		C	0104	100	1.1	
VORO	16	0101	0102	0114	N05	E24	.418	17331	17.8	13	-N		C	0102	90	1.0	EJL
PEKG	16	0104	0106	0120	N05	E24	.418	17331	17.8	16	-F		P	0106	59	.6	E
GRP90655	16	0143+3	0148+1	0156	N08	E23	.417	17331	17.8	13	-N				170	1.9	
CULG	16	0143	0148	0158	N09	E23	.423	17331	17.8	15	1B		C	0148	200	2.2	
LEAR	16	0146	0148	0155	N05	E24	.418	17331	17.9	9	-B	3	C		173		
VORO	16	0146	0149	0156	N08	E22	.402	17331	17.7	10	-F		C	0149	170	1.9	E
YUNN	16	0153E		0153	N08	E23	.417	17331	17.8		-B		P	0153	64	.7	B
PURP	16	0158E	0158	0159D	N09	E21	.394	17331	17.7	1D	-N		C				D
656 CULG	16	0148	0157	0201D	S04	W62	.883	17317	11.4	13D	-F		P	0157	40	1.0	
657 VORO	16	0230	0231	0236	S09	E40	.651	17332	19.1	6	-F		C	0231	45	.6	DH
658 CULG	16	0252	0304	0325	N19	W41	.706	17323	13.0	33	-F		C	0304	80	1.2	
GRP90659	16	0256>9	0317+2	0320D	S08	W73	.956	17313	10.6	24	-F						
CULG	16	0256	0319	0350	S08	W71	.946	17313	10.8	54	-N		C	0319	30		
LEAR	16	0315	0317	0320	S09	W76	.970	17313	10.4	5	-F	3	C				
GRP90660	16	0317+5	0322+1	0334	S35	W04	.562	17326	15.8	17	-F				50	.6	
CULG	16	0317	0322	0338	S35	W04	.562	17326	15.8	21	-N		C	0322	70	.8	
LEAR	16	0322	0323	0329	S35	W04	.562	17326	15.8	7	-F	3	C		42		
661 LEAR	16	0334	0346	0358	N14	E30	.549	17331	18.4	24	-F	3	C		45		
GRP90662	16	0429+5	0436+2	0443	N08	E21	.387	17331	17.8	14	-F						
CULG	16	0429	0436	0445	N09	E21	.394	17331	17.8	16	-N		C	0436	120	1.3	
LEAR	16	0434	0438	0440	N08	E21	.387	17331	17.8	6	-F	3	C		43		
663 LEAR	16	0443	0447	0451	S18	E14	.372	17330	17.2	8	-F	3	C		35		
664 LEAR	16	0540	0541	0558	N03	E22	.380	17331	17.9	18	-F	3	C		55		
665 LEAR	16	0555	0558	0610	N14	E32	.575	17331	18.6	15	-F	3	C		46		
GRP90666	16	0628+4	0635 0652	0721	S17	E13	.350	17330	17.2	53	-N						E
CULG	16	0628	0635	0646D	S18	E12	.353	17330	17.2	18D	-N	*	C	0635	60	.7	T
LEAR	16	0632	0652	0722	S18	E14	.372	17330	17.3	50	-N	*	C		106		
PURP	16	0650	0659	0721	S17	E09	.314	17330	17.0	31	-N	*	C				E
ISTA	16	0650		0716	S17	E15	.371	17330	17.4	26	1N	*					E
667 LEAR	16	0648	0654	0708	N07	E27	.471	17331	18.3	20	-F	3	C		61		
668 PURP	16	0749E	0749	0759	N11	E35	.599	17331	19.0	10D	-N		C				D
GRP90669	16	0805+6	0809+4	0823	N08	E18	.343	17331	17.7	18	-N				140	1.5	
CATA	16	0805	0810	0825	N08	E18	.343	17331	17.7	20	-F	2	C	0810	140	1.5	
LEAR	16	0805	0809	0813D	N09	E18	.351	17331	17.7	8D	1B	3	C		203		
ATHN	16	0811	0813	0821	N08	E18	.343	17331	17.7	10	-B	2	V	0813	64	.7	
670 LEAR	16	0818	0824	0830	N14	W40	.674	17323	13.3	12	-F	3	C		41		
671 YUNN	16	0841E		0842	N03	E81	.988	17338	22.4	1D	-N		P	0841	32		AB
GRP90672	16	0907+2	0907+5 0921	0928	N08	E23	.417	17331	18.1	21	-N				70	.8	
LEAR	16	0907	0907	0934	N06	E23	.407	17331	18.1	27	-N	3	C		81		
ATHN	16	0909	0912	0921	N06	E23	.407	17331	18.1	12	-B	3	V	0912	57	.6	
LEAR	16	0920	0921	0929	N13	E25	.477	17331	18.3	9	-F	3	C		47		

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GRP90673	16	0942>9	0959 1012+1	1053	N05	E20	.356	17331	17.9	71	1B				350	3.7	IJ
LEAR	16	0942	1012	1023	N06	E24	.422	17331	18.2	41	2B	3	C		708		D
ABST	16	0948	1013	1026	N05	E16	.294	17331	17.6	38	1N		P	1013	349	3.8	FJ
ATHN	16	0954	0959	1054	N04	E18	.320	17331	17.8	60	-B	3	V	0959	166	1.8	
HTPR	16	1011E		1130	N07	E18	.337	17331	17.8	79D	1B		C	1015	320	3.2	EFI
CATA	16	1045E	1045	1120D	N04	E23	.399	17331	18.2	35D	1F	2	P	1045	394	4.4	
674 LEAR	16	1013	1019	1023	S09	W78	.978	17314	10.6	10	-F	3	C				
675 LEAR	16	1018	1021	1022	S18	E10	.336	17330	17.2	4	-F	3	C		26		
GRP90676	16	1136	1154+0	1236	N12	E20	.403	17331	18.0	60	1B						
HTPR	16	1136		1204D	N12	E20	.403	17331	18.0	28D	1B		C	1152	400	4.0	E
RAMY	16	1149E	1154	1236	N12	E20	.403	17331	18.0	47D	2B	3	C		714		D
ATHN	16	1151	1154	1232	N08	E20	.373	17331	18.0	41	1B	3	V	1154	255	2.8	
HTPR	16	1209E		1324D	N12	E25	.470	17331	18.4	75D	1B		C	1209	250	2.8	
677 HTPR	16	1248	1251	1256	N07	E16	.307	17331	17.7	8	-F		C	1251	20	.2	
GRP90678	16	1427>9	1454+1	1511	N07	E13	.263	17331	17.6	44	1B				440	4.6	E
HOLL	16	1427	1453	1454D	N04	E22	.383	17331	18.3	27D	1N	2	C		303		
HOLL	16	1427	1454	1516	N09	E14	.295	17331	17.7	49	1B	*	C		492		D
RAMY	16	1442	1455	1506	N09	E13	.282	17331	17.6	24	1B	*	C		435		
HTPR	16	1455E		1505D	N07	E13	.263	17331	17.6	10D	1B		C	1456	350	3.5	E
GRP90679	16	1432+4	1437+0	1448	S17	E08	.306	17330	17.2	16	-B				140	1.5	E
RAMY	16	1432	1437	1449D	S17	E08	.306	17330	17.2	17D	-B	3	C		141		
HOLL	16	1436	1437	1438D	S16	E07	.284	17330	17.1	2D	-B	2	C		131		
HTPR	16	1436	1437	1447	S18	E11	.344	17330	17.4	11	-B		C	1437	140	1.4	E
GRP90680	16	1835+0	1836+3	1846	N08	E11	.245	17331	17.6	11	-N				40	.4	
BIGB	16	1835	1838	1846	N08	E11	.245	17331	17.6	11	-N	3	C	1838	90	.9	
HOLL	16	1835	1836	1847	N08	E11	.245	17331	17.6	12	-N	3	C		38		
PALE	16	1835	1839U	1845	N07	E12	.249	17331	17.7	10	-F	3	C		33		
GRP90681	16	1851+1	1857+1	1914	N17	E26	.520	17331	18.7	23	-N				70	.8	D
BIGB	16	1851	1858	1915	N17	E27	.532	17331	18.8	24	-N	3	C	1858	90	1.0	
HOLL	16	1852	1857	1913	N17	E25	.508	17331	18.7	21	-B	3	C		61		D
GRP90682	16	1919+3	1922+0	1941	N13	W50	.783	17321	13.1	22	-N				110	1.8	
HOLL	16	1919	1922	1949	N13	W48	.762	17321	13.2	30	-B	3	C		106		
BIGB	16	1920	1922	1941	N12	W50	.781	17321	13.1	21	1N	3	C	1922	140	2.2	
PALE	16	1922	1922	1930	N14	W52	.805	17321	12.9	8	-F	3	C		44		
683 HOLL	16	1945	1947	2014	N18	E25	.516	17331	18.7	29	-N	3	C		29		
684 HOLL	16	1956	2001	2013	N14	W49	.775	17321	13.2	17	-F	3	C		24		
GRP90685	16	2025+2	2028+1	2035	N08	E10	.232	17331	17.6	10	-N				70	.7	
BIGB	16	2025	2028	2035	N08	E10	.232	17331	17.6	10	-N	3	C	2028	70	.7	
HOLL	16	2026	2029	2036	N08	E10	.232	17331	17.6	10	-N	3	C		86		
PALE	16	2027	2029	2035	N07	E11	.235	17331	17.7	8	-F	3	C		43		
686 CULG	16	2201	2212	2258	N11	E32	.559	17331	19.3	57	-N		C	2212	70	.8	
687 CULG	16	2214	2218	2226	N06	W06	.160	17327	16.5	12	-F		C	2218	60		
688 CULG	16	2237	2249	2311	S36	W12	.598	17326	16.0	34	-F		C	2249	30	.4	
GRP90689	16	2243>9	2335	2356D	N05	E20	.356	17331	18.4	73	-N						
LEAR	16	2243	2502	0128	N05	E25	.433	17331	18.8	165	-B	3	C		183		
CULG	16	2322	2335	2356	N05	E16	.294	17331	18.2	34	-F		C	2335	70	.7	
GRP90690	17	0035+1	0037+2 0050	0111	N16	E21	.453	17331	18.6	36	-N						F
LEAR	17	0035	0037	0046	N15	E21	.443	17331	18.6	11	-N	3	C		23		
CULG	17	0036	0039	0111	N18	E21	.472	17331	18.6	35	-N		C	0039	150	1.7	F
LEAR	17	0050	0050	0104D	N15	E22	.455	17331	18.7	14D	-F	3	C		21		

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GRP90691		17	0106	0121 0146	0201D	S15	E02	.242	17330	17.2	55	-F						
	CULG	17	0106	0121	0155	S16	E03	.261	17330	17.3	49	-F		C	0121	50	.5	
	CULG	17	0138	0146	0201U	S14	E01	.223	17330	17.1	23D	-F		C	0146	120	1.2	
692	VORO	17	0128	0130	0132	N10	E10	.258	17331	17.8	4	-F	*	C	0130	63	.7	D
693	CULG	17	0232	0245	0259	S18	E58	.860	17336	21.5	27	-F		C	0245	50	1.0	
GRP90694		17	0234>9	0329 0347	0421	N10	E17	.346	17331	18.4	107	-F						
	CULG	17	0234	0329	0434	N06	E16	.301	17331	18.3	120	-F		C	0329	80	.8	
	LEAR	17	0347	0347	0407	N14	E19	.409	17331	18.6	20	-F	3	C		31		
695	CULG	17	0341	0355	0444	S18	E50	.787	17336	20.9	63	-N		C	0355	90	1.4	
696	CULG	17	0342	0349	0406	N14	W62	.893	17321	12.5	24	-N		C	0349	30	.7	
GRP90697		17	0421+5	0424+5	0441	N07	E05	.166	17331	17.6	20	-B						DH
	CULG	17	0421	0425	0449	N07	E07	.186	17331	17.7	28	-B	*	C	0425	140	1.4	H
	LEAR	17	0424E	0424U	0437	N05	E09	.189	17331	17.9	13D	-B	*	C		43		D
	MITK	17	0424	0425	0445	N07	E05	.166	17331	17.6	21	1N	*	C	0425	220	2.3	H
	MANI	17	0426	0427	0432D	N06	E05	.151	17331	17.6	6D	-N	*	V		40	.4	
	PURP	17	0428E	0429	0442	N07	E05	.166	17331	17.6	14D	1B	*	C				
	YUNN	17	0430E		0435	N08	E05	.181	17331	17.6	5D	-N	*	P	0435	113	1.2	B
698	CULG	17	0448	0449	0457	N12	W58	.858	17321	12.8	9	-F		C	0449	20	.4	
699	CULG	17	0504	0511	0528	N22	E17	.477	17331	18.5	24	-N		C	0511	170	1.9	F
700	CULG	17	0537	0542	0552	N11	W59	.865	17324	12.8	15	-F		C	0542	30	.7	
GRP90701		17	0543	0556+3	0612	N13	E22	.438	17331	18.9	29	-F						FK
	CULG	17	0543	0556	0612	N15	E17	.396	17331	18.5	29	-F		C	0556	140	1.5	FK
	CULG	17	0556	0559	0612	N12	E27	.498	17331	19.3	16	-F		C	0559	40	.5	
702	CULG	17	0547	0558	0605	N07	E06	.175	17331	17.7	18	-F		C	0558	50	.5	
703	LEAR	17	0639	0640	0648	N02	E07	.133	17331	17.8	9	-F	3	C		28		
704	CULG	17	0640	0643	0654	S18	E02	.292	17330	17.4	14	-N		C	0643	70	.7	
705	CULG	17	0658	0707	0716	S17	W52	.804	17318	13.4	18	-F		C	0707	30	.6	
706	CULG	17	0758	0801	0805	S17	W57	.850	17318	13.1	7	-F		C	0801	30	.6	
GRP90707		17	0801+3	0805+1	0820	N13	E15	.351	17331	18.5	19	-N				100	1.1	E
	CULG	17	0801	0805	0811D	N13	E15	.351	17331	18.5	10D	-N		P	0805	120	1.3	
	HTPR	17	0804	0806	0819	N12	E14	.328	17331	18.4	15	-F		C	0806	60	.6	E
	LEAR	17	0804	0805	0821	N14	E17	.385	17331	18.6	17	-N	3	C		133		
708	HTPR	17	0806	0808	0812	N07	E01	.143	17331	17.4	6	-N		C	0808	50	.5	E
GRP90709		17	0816	0818	0820	N07	E02	.146	17331	17.5	4	-F				25	.3	E
	HTPR	17	0816	0818	0821	N07	E01	.143	17331	17.4	5	-F		C	0818	20	.2	
	YUNN	17	0818E		0818	N08	E04	.173	17331	17.6		-N		P	0818	32	.3	E
GRP90710		17	0844+1	0845+2	0855	N07	E03	.151	17331	17.6	11	-B				120	1.2	DHV
	ATHN	17	0844	0847	0910	N10	E07	.227	17331	17.9	26	-B	2	V	0847	111	1.2	
	ABST	17	0844	0845	0850	N06	E04	.142	17331	17.7	6	-N		C	0845	131	1.3	DV
	LEAR	17	0845	0846	0858	N06	E03	.135	17331	17.6	13	-B	3	C		138		D
	HTPR	17	0845	0847	0854	N07	E01	.143	17331	17.4	9	-B		C	0847	100	1.0	E
	YUNN	17	0846E	0846	0852	N08	E03	.167	17331	17.6	6D	1N		P		193	2.1	
	WEND	17	0847E	0847	0857	N08	E03	.167	17331	17.6	10D	-B		C	0847	78	.8	H
GRP90711		17	0943+3	0949+6	1006	N09	E12	.270	17331	18.3	23	-F				40	.4	E
	HTPR	17	0943	0955	1006	N09	E12	.270	17331	18.3	23	-F		C	0955	40	.4	E
	WEND	17	0945	0951	1008	N10	E13	.294	17331	18.4	23	-F		C	0951	47	.5	
	LEAR	17	0946	0949	0958	N07	E10	.223	17331	18.2	12	-F	3	C		34		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90712	17	1133	1134 1141	1200	N07	00	.142	17331	17.5	27	-N			45	.5	EHK
HTPR	17	1133	1134	1200	N07	W01	.143	17331	17.4	27	-N	C	1141	50	.5	EK
HTPR	17	1133	1141	1200	N07	W01	.143	17331	17.4	27	-N	C				
WEND	17	1136E		1151D	N08	E02	.163	17331	17.6	15D	-N	C	1136	44	.5	H
GRP90713	17	1206+1	1209+2	1300	N10	E07	.227	17331	18.0	54	1B			480	4.9	AI
HTPR	17	1206	1209	1300	N10	E06	.219	17331	18.0	54	1B	C	1209	450	4.5	EIA
RAMY	17	1206	1209	1310	N10	E07	.227	17331	18.0	64	2B	3 C		646		D
WEND	17	1207	1211	1243	N11	E08	.251	17331	18.1	36	1N	P	1211	338	3.6	
GRP90714	17	1256+1	1257+2	1316	N07	E07	.186	17331	18.1	20	-F			40	.4	E
HTPR	17	1256	1257	1326	N07	E09	.210	17331	18.2	30	-F	C	1257	50	.5	E
RAMY	17	1257	1259	1305	N07	E05	.166	17331	17.9	8	-N	3 C		33		
GRP90715	17	1343+2	1347+0	1353	N07	W01	.143	17331	17.5	10	-F			45	.5	EH
HTPR	17	1343	1347	1352	N07	W01	.143	17331	17.5	9	-N	C	1347	40	.4	E
WEND	17	1345	1347	1354	N08	W01	.160	17331	17.5	9	-F	C	1347	50	.5	H
GRP90716	17	1435+2	1438+2	1451	N16	E14	.375	17331	18.7	16	-F			70	.8	E
HTPR	17	1435	1438	1451	N16	E15	.385	17331	18.7	16	-F	C	1438	80	.8	E
WEND	17	1437	1440	1446D	N16	E13	.365	17331	18.6	9D	-F	C	1440	72	.8	
	17	1505	1510	NO FLARE PATROL												
GRP90717	17	1634+1	1636+4	1704	N14	W60	.877	17321	13.2	30	-F			80	1.7	
HOLL	17	1634	1636	1710	N15	W59	.870	17321	13.3	36	-N	3 C		69		
BIGB	17	1635	1640	1657	N13	W61	.884	17321	13.1	22	-F	1 C	1640	90	1.9	
GRP90718	17	1819+3	1829+1 1859	1904	S18	E50	.787	17336	21.5	45	1N			130	2.1	D
BIGB	17	1819	1829	1904	S18	E50	.787	17336	21.5	45	1B	2 C	1829	150	2.4	
PALE	17	1822	1830	1852	S18	E50	.787	17336	21.5	30	-N	3 C		123		D
HOLL	17	1858	1859	1929	S19	E46	.748	17336	21.2	31	-F	3 C		72		
719 CULG	17	2047	2049	2055	S18	W08	.319	17330	17.3	8	-F	C	2049	30	.3	
720 CULG	17	2105	2110	2133	N08	E04	.173	17331	18.2	28	-F	C	2110	160	1.6	F
721 CULG	17	2109	2114	2134	N07	E25	.442	17333	19.8	25	-F	C	2114	40	.4	
722 CULG	17	2137	2143	2148	N15	W64	.908	17321	13.1	11	1N	C	2143	130	3.2	
723 CULG	17	2246	2251	2257	N08	W03	.167	17331	17.7	11	-N	C	2251	60	.6	H
GRP90724	17	2253+2	2257+6	2340D	N15	W62	.894	17321	13.3	47	-B					
CULG	17	2253	2303	2315D	N16	W62	.895	17321	13.3	22D	1N	C	2303	180	4.2	F
HOLL	17	2255	2257	2340D	N14	W62	.893	17321	13.3	45D	-B	3 C		65		D
725 YUNN	18	0013E		0015	N14	W61	.885	17323	13.4	2D	-N	P	0013	48	1.0	
GRP90726	18	0141+1	0143+8	0218	N07	E01	.145	17331	18.1	37	1B			350	3.5	
PURP	18	0141	0146	0156	N06	E02	.131	17331	18.2	15	1N	C				
PALE	18	0141	0143	0211	N07	E03	.153	17331	18.3	30	1B	2 C		263		D
PEKG	18	0141	0151	0231	N07	E00	.144	17331	18.1	50	1B	C	0149	421	4.4	F
MITK	18	0142	0143	0220	N07	E03	.153	17331	18.3	38	1B	C	0143	450	4.7	E
MANI	18	0143E	0143	0230D	N07	W02	.148	17331	17.9	47D	1B	1 V		215	2.2	F
LEAR	18	0144E	0144U	0245D	N05	W03	.121	17331	17.8	61D	1B	2 C		378		D
YUNN	18	0146E	0146	0200	N07	E03	.153	17331	18.3	14D	1B	P		401	4.2	E
GRP90727	18	0230+0	0230+2	0236	S06	E09	.176	17332	18.8	6	-N					
PALE	18	0230	0230	0236	S06	E10	.192	17332	18.9	6	-F	2 C		26		
YUNN	18	0230E	0231	0235	S07	E09	.185	17332	18.8	5D	-N	P		161	1.7	E
PEKG	18	0230	0232	0256	S06	E09	.176	17332	18.8	26	1N	C	0232	294	3.1	F
728 LEAR	18	0704	0711	0713	S18	E47	.755	17336	21.8	9	-F	3 C		22		
GRP90729	18	0807+9	0823+1	0839	N14	E02	.265	17331	18.5	32	-F			90	.9	DJ
CULG	18	0807	0823	0825D	N12	E02	.232	17331	18.5	18D	-F	* C	0823	50	.5	
LEAR	18	0814	0824	0839	N14	E01	.264	17331	18.4	25	-F	* C		88		
ABST	18	0816	0823	0838	N16	E05	.308	17331	18.7	22	-F	* C	0823	131	1.4	DJ

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
730 LEAR	18	0810	0818	0826	S18	E46	.745	17336	21.8	16	-F	3	C		28		
731 ABST	18	0826	0829	0838	S18	E46	.745	17336	21.8	12	-F		C	0829	87	1.4	DJ
732 LEAR	18	0915	0916	0923	N04	W07	.152	17331	17.9	8	-F	3	C		28		
733 WEND	18	0915	0920	0944D	S17	W17	.390	17330	17.1	29D	-F		C	0920	88	1.0	E
	18	0945	1044	NO FLARE PATROL													
GRP90734	18	1219>9	1226 1239	1242	N04	E47	.734	17338	22.0	23	-F						D
LWOV	18	1219	1226	1240	N03	E50	.768	17338	22.3	21	1F		C	1226	200	3.1	D
KANZ	18	1239	1239	1243	N06	E45	.713	17338	21.9	4	-F	2					
	18	1301	1310	NO FLARE PATROL													
	18	1401	1517	NO FLARE PATROL													
GRP90735	18	1908>9	1922+1	1936	N08	W14	.288	17331	17.7	28	-N				70	.7	D
PALE	18	1908	1923	1939	N07	W11	.237	17331	18.0	31	-N	2	C		44		
HOLL	18	1913	1922	1928	N08	W14	.288	17331	17.8	15	-B	3	C		84		D
BIGB	18	1921	1922	1936	N08	W15	.302	17331	17.7	15	-N	3	C	1922	80	.9	
736 CULG	18	2009	2012	2026	N15	E01	.281	17331	18.9	17	-F		C	2012	50	.5	
737 CULG	18	2033	2044	2052	N03	E51	.779	17338	22.7	19	-F		C	2044	40	.6	
GRP90738	18	2205+8	2220+2	2305	S33	W36	.724	17326	16.2	60	2F				360	5.2	U
CULG	18	2205	2220	2316	S32	W37	.663	17326	16.1	71	1N		C	2220	280	4.2	U
BIGB	18	2213	2222	2254	S35	W35	.730	17326	16.3	41	2F	3	C	2222	450	5.7	
739 CULG	18	2212	2221	2244	S09	W01	.136	17332	18.8	32	-F		C	2221	40	.4	
GRP90740	18	2225+5	2231+3	2250	N14	W01	.264	17331	18.9	25	-F				70	.7	
CULG	18	2225	2234	2250	N14	W01	.264	17331	18.9	25	-N		C	2234	80	.8	
BIGB	18	2230	2231	2249	N15	W02	.282	17331	18.8	19	-F	3	C	2231	60	.6	
741 CULG	18	2339	2346	0014	N05	W15	.280	17331	17.9	35	?F		C	2346	200	2.1	F
			IMP.1 NO : BIGB														
GRP90742	19	0012+3	0014+4	0026	N14	W08	.298	17331	18.4	14	-F				90	.9	E
VORO	19	0012	0014	0026	N15	W08	.312	17331	18.4	14	-F		C	0014	72	.8	E
PEKG	19	0015	0018	0025	N14	W09	.305	17331	18.3	10	-N		C	0017	118	1.3	E
GRP90743	19	0101+9	0106+8	0130	N12	W11	.297	17331	18.2	29	-F				100	1.0	EJKL
CULG	19	0101	0109	0226	N13	W11	.310	17331	18.2	85	-N		C	0109	180	1.9	FKT
LEAR	19	0105	0107	0117	N12	W11	.297	17331	18.2	12	-F	3	C		69		
VORO	19	0105	0106	0131	N13	W12	.320	17331	18.1	26	-N		C	0106	99	1.1	EJL
PEKG	19	0110	0114	0129	N12	W11	.297	17331	18.2	19	-F		P	0114	105	1.1	E
744 CULG	19	0210	0212	0218	N07	W19	.354	17331	17.7	8	-N		C	0212	20	.2	
GRP90745	19	0230+5	0237+3	0248	S04	E60	.866	17340	23.6	18	1B				140	2.8	EJ
CULG	19	0230	0238	0255	S03	E60	.866	17340	23.6	25	1B		C	0238	120	2.5	
LEAR	19	0232	0237	0250	S06	E61	.875	17340	23.7	18	1B	3	C		165		
PURP	19	0233	0237	0239D	S05	E59	.857	17340	23.5	6D	1B		P				
VORO	19	0233	0238	0250	S05	E61	.875	17340	23.7	17	1B		C	0238	206	4.1	EJ
PEKG	19	0234	0240	0245	S04	E61	.874	17340	23.7	11	1B		P	0240	143	2.9	E
PALE	19	0235	0238	0243	S04	E60	.866	17340	23.6	8	-F	2	C		70		
GRP90746	19	0234>9	0250+4	0322	N13	W12	.320	17331	18.2	48	-F				90	.9	EJK
VORO	19	0234	0250	0323	N13	W12	.320	17331	18.2	49	-F		C	0250	72	.9	EJK
PEKG	19	0245	0254	0321	N13	W13	.331	17331	18.1	36	-F		C	0254	109	1.2	E
747 CULG	19	0243	0247	0255	S13	E28	.501	17336	21.2	12	-F		C	0247	30	.3	
748 CULG	19	0248	0250	0300	N03	E45	.710	17338	22.5	12	-F		C	0250	40	.6	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90749	19	0423	0442+4	0459	N15	W06	.300	17331	18.7	36	-F					E
CULG	19	0423	0442	0507	N16	W04	.306	17331	18.9	44	-N	C	0442	160	1.7	
LEAR	19	0439E	0445U	0448D	N15	W06	.300	17331	18.7	9D	-F	2 C		73		
PEKG	19	0442	0446	0451	N15	W07	.306	17331	18.7	9	-F	C	0446	42	.4	E
	19	0903	1512	NO FLARE PATROL												
750 HOLL	19	1954	1955	2003	N06	W26	.454	17331	17.9	9	-F	2 C		29		
GRP90751	19	2010+2	2014+0 2024	2053	N05	W24	.420	17331	18.0	43	1N			250	2.8	FK
CULG	19	2010	2024	2058	N08	W23	.419	17331	18.1	48	1B	C	2024	180	2.0	FK
BIGB	19	2012	2014	2049	N05	W24	.420	17331	18.0	37	1N	3 C	2014	290	3.2	
HOLL	19	2012	2014	2057	N05	W25	.435	17331	18.0	45	1N	2 C		252		
PALE	19	2018E	2018U	2027	N04	W26	.447	17331	17.9	9D	-F	2 C		34		
GRP90752	19	2034+1	2035+6	2104	N03	E39	.632	17338	22.8	30	-F			120	1.5	
CULG	19	2034	2035	2120	N03	E40	.646	17338	22.9	46	1N	C	2035	160	2.1	
BIGB	19	2034	2040	2104	N05	E37	.609	17338	22.6	30	-F	3 C	2040	120	1.5	
HOLL	19	2035	2041	2059	N02	E39	.631	17338	22.8	24	-F	2 C		79		
753 CULG	19	2041	2047	2129	S15	E41	.678	17342	22.9	48	-F	C	2047	90	1.3	
GRP90754	19	2102+4	2108+2	2121	N15	W15	.376	17331	18.8	19	-F			150	1.6	
CULG	19	2102	2110	2126	N16	W15	.388	17331	18.8	24	-N	C	2110	110	1.2	
BIGB	19	2106	2108	2116	N15	W15	.376	17331	18.8	10	-F	3 C	2108	190	2.0	
755 CULG	19	2159	2210	2233	N07	W25	.443	17331	18.0	34	-F	C	2210	100	1.2	
756 CULG	19	2214	2219	2228	S19	E21	.455	17336	21.5	14	-F	C	2219	60	.7	
757 CULG	19	2308	2325	2338U	N08	W27	.477	17331	17.9	30D	-N	C	2325	120	1.4	FK
758 CULG	19	2348	2401	0017	S19	W37	.647	17330	17.2	29	-F	C	2401	40	.5	
GRP90759	20	0007+2	0010+3	0025	N15	W15	.378	17331	18.9	18	-N			140	1.5	E
CULG	20	0007	0013	0027	N18	W13	.396	17331	19.0	20	-N	C	0013	150	1.7	
LEAR	20	0009	0011	0030	N15	W15	.378	17331	18.9	21	-N	3 C		131		
MITK	20	0009	0013	0022	N15	W15	.378	17331	18.9	13	-N	C	0013			E
PEKG	20	0010E	0010	0016	N15	W15	.378	17331	18.9	6D	-B	P	0010	139	1.5	E
GRP90760	20	0039+3	0043+0	0052	N05	W30	.510	17331	17.8	13	-F			35	.4	
CULG	20	0039	0043	0050	N07	W30	.517	17331	17.8	11	-F	C	0043	30	.3	
LEAR	20	0042	0043	0053	N04	W30	.507	17331	17.8	11	-N	3 C		43		
761 CULG	20	0128	0131	0136	N09	W26	.469	17331	18.1	8	-N	C	0131	60	.7	
762 LEAR	20	0217	0218	0223	N05	W33	.553	17331	17.6	6	-F	3 C		33		
GRP90763	20	0223+5	0228+2	0237	N16	W17	.411	17331	18.8	14	-N			50	.5	
CULG	20	0223	0229	0243	N20	W18	.467	17331	18.7	20	-N	C	0229	60	.6	T
LEAR	20	0227	0228	0235	N16	W16	.400	17331	18.9	8	-N	3 C		43		
PEKG	20	0228	0229	0236	N17	W17	.422	17331	18.8	8	-N	C	0229	42	.5	D
VORO	20	0228E	0230	0238	N16	W18	.422	17331	18.8	10D	-F	P	0230	45	.5	CE
764 CULG	20	0346	0352	0405	N13	E72	.955	17341	25.6	19	?F	C	0352	100		
			IMP.1	NO : PEKG												
765 CULG	20	0355	0358	0415	N18	W20	.465	17331	18.7	20	-N	C	0358	60	.6	T
766 LEAR	20	0517	0518	0527	N16	W18	.422	17331	18.9	10	-N	3 C		43		
GRP90767	20	0624+4	0628+1	0646	S17	W41	.684	17330	17.2	22	-F					D
CULG	20	0624	0628	0647	S17	W40	.673	17330	17.3	23	-N	C	0628	50	.7	
PEKG	20	0628	0629	0645	S18	W43	.711	17330	17.0	17	-F	C	0629	13	.2	D
768 CULG	20	0641	0709	0721	N18	W20	.465	17331	18.8	40	-N	C	0709	140	1.5	FT
769 CULG	20	0715	0724D	0724D	N05	W35	.582	17331	17.7	9D	-N	P	0724	80	1.0	
770 LEAR	20	0729E	0729U	0743	N03	W37	.605	17331	17.5	14D	-F	2 C		67		

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	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
771	LEAR	20	0809	0811	0815	S16	W42	.693	17330	17.2	6	-F	2	C		30		
772	LEAR	20	0924E	0927	0940	S08	E41	.661	17340	23.5	16D	-N	2	C		106		
		20	1014	1228	NO FLARE PATROL													
773	RAMY	20	1330	1338	1354	S04	E40	.643	17340	23.6	24	-N	3	C		43		
774	RAMY	20	1515	1517	1527	S20	W46	.750	17330	17.2	12	-F	3	C		23		
775	RAMY	20	1551	1553	1622	N12	W37	.631	17331	17.9	31	-N	3	C		34		
GRP90776		20	1637+1	1638+3	1656	N15	W28	.534	17331	18.6	19	-N				70	.8	
	BIGB	20	1637	1639	1656	N15	W28	.534	17331	18.6	19	-F	2	C	1639	120	1.4	
	HOLL	20	1637	1638	1656	N16	W25	.504	17331	18.8	19	-N	3	C		49		
	RAMY	20	1638	1641	1654	N14	W28	.527	17331	18.6	16	-N	3	C		72		
777	HOLL	20	1637	1637	1654	S17	E14	.354	17336	21.7	17	-F	3	C		20		
GRP90778		20	1701+1	1706+4	1730	S20	W47	.760	17330	17.2	29	1B				220	3.4	D
	HOLL	20	1701	1706	1730	S18	W47	.754	17330	17.2	29	1B	3	C		172		
	RAMY	20	1702	1710	1732	S21	W47	.763	17330	17.2	30	1B	3	C		178		D
	BIGB	20	1702	1707	1725	S20	W49	.780	17330	17.0	23	1N	2	C	1707	320	5.0	
779	CULG	20	2010	2013	2022	N05	W38	.623	17331	18.0	12	-N		C	2013	60	.8	
780	CULG	20	2027	2037	2047	N14	W38	.652	17331	18.0	20	-F		C	2037	50	.6	
GRP90781		20	2042+3	2047+3	2102	S19	W49	.778	17330	17.2	20	-B				90	1.4	D
	CULG	20	2042	2047	2103	S19	W48	.768	17330	17.3	21	-B		C	2047	70	1.1	
	BIGB	20	2044	2050	2058	S20	W50	.790	17330	17.1	14	-N	2	C	2050	90	1.4	
	RAMY	20	2044	2049	2053D	S20	W51	.800	17330	17.0	9D	-B	3	C		125		D
	HOLL	20	2045	2050	2102	S18	W49	.775	17330	17.2	17	-B	3	C		85		
782	CULG	20	2110	2113	2120	N13	E62	.892	17341	25.5	10	-F		C	2113	50	1.1	
783	CULG	20	2147	2149U	2149D	N03	W40	.646	17331	17.9	2D	-N		C	2149	40	.5	
GRP90784		21	0047+2	0048+2	0056	N14	W29	.540	17331	18.9	9	-F				45	.5	E
	VORO	21	0047	0048	0055	N15	W30	.560	17331	18.8	8	-F		C	0048	45	.6	E
	LEAR	21	0049	0050	0056	N14	W29	.540	17331	18.9	7	-F	3	C		42		
GRP90785		21	0301>9	0313+1	0331	N10	W37	.624	17331	18.4	30	-F				160	2.0	EJ
	LEAR	21	0301	0313	0327	N08	W40	.657	17331	18.1	26	-F	3	C		125		
	VORO	21	0311	0313	0333	N10	W38	.637	17331	18.3	22	1F		C	0313	152	2.1	EJ
	LEAR	21	0312	0314	0328	N12	W34	.594	17331	18.6	16	-F	3	C		47		
GRP90786		21	0400+5	0402+3	0414	S19	W53	.816	17330	17.2	14	-B						D
	LEAR	21	0400	0402	0418	S19	W53	.816	17330	17.2	18	-B	3	C		148		D
	PURP	21	0400	0403	0405D	S19	W52	.807	17330	17.3	5D	1N		P				
	YUNN	21	0405	0405	0409	S17	W55	.831	17330	17.0	4	-B		P		64	1.2	
787	RAMY	21	1343	1349	1419	S17	E04	.273	17336	21.9	36	-F	3	C		127		
788	HOLL	21	1536	1553	1609	N15	W39	.669	17331	18.7	33	-F	3	C		22		
GRP90789		21	1644+0	1647+4	1659	S20	W61	.885	17330	17.1	15	-N				50	1.1	
	RAMY	21	1644	1649	1700	S21	W61	.887	17330	17.1	16	-N	3	C		47		
	BIGB	21	1644	1647	1658	S20	W61	.885	17330	17.1	14	-N	2	C	1647	60	1.3	
	HOLL	21	1644	1651	1659	S18	W62	.890	17330	17.0	15	-N	3	C		34		
GRP90790		21	1846+0	1849+1	1905	S16	E07	.274	17336	22.3	19	-F				60	.6	
	BIGB	21	1846	1850	1904	S16	E08	.282	17336	22.4	18	-F	2	C	1850	70	.7	
	HOLL	21	1846	1849	1906	S16	E06	.268	17336	22.2	20	-F	3	C		61		
GRP90791		21	1847+2	1852+1	1924	S16	E14	.341	17342	22.8	37	-F				50	.5	
	BIGB	21	1847	1852	1924	S16	E14	.341	17342	22.8	37	-F	2	C	1852	60	.6	
	HOLL	21	1847	1853	1929	S16	E16	.364	17342	23.0	42	-F	3	C		58		
	RAMY	21	1849	1852	1911	S15	E12	.307	17342	22.7	22	-F	3	C		31		
792	HOLL	21	1907	1907	1920	N19	E46	.762	17341	25.2	13	-F	3	C		42		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
793 HOLL	21	1908	1920	1939	N15	W41	.693	17331	18.7	31	-F	3	C		33		
794 HOLL	21	1911	1912	1921	S16	W02	.250	17336	21.6	10	-F	3	C		28		
795 HOLL	21	1943	2120	2138	N15	W42	.704	17331	18.7	115	-F	3	C		37		
796 CULG	21	2137	2156	2210	S03	W38	.616	17332	19.1	33	-F		C	2156	60	.8	
797 CULG	21	2200	2203	2216	S05	E22	.378	17340	23.6	16	-N		C	2203	80	.9	
798 CULG	21	2205	2221	2222D	N14	W32	.579	17333	19.5	17D	-N		C	2221	80	1.0	
799 CULG	21	2206	2209	2214	N10	W50	.778	17331	18.2	8	-F		C	2209	50	.8	
800 CULG	21	2224	2321U	0157U	N05	E12	.237	17338	22.8	213D	?F		C	2321	300	3.0	F
			IMP.1 NO : BIGB														
801 HOLL	21	2246	2257	2313	N29	E64	.929	17346	26.7	27	-F	3	C		52		
802 HOLL	21	2259	2305	2317	N07	W54	.815	17331	17.9	18	-F	3	C		43		
GRP90803	22	0130+1	0135+1	0150	N14	W44	.724	17331	18.8	20	-F				40	.6	EJ
LEAR	22	0130	0136	0149	N14	W44	.724	17331	18.8	19	-N	3	C		25		
VORO	22	0131	0135	0150	N14	W44	.724	17331	18.8	19	-F		C	0135	54	.8	EJ
GRP90804	22	0157+9	0207+3	0231	N14	W44	.724	17331	18.8	34	-N						EJ
MITK	22	0157	0207	0234	N14	W45	.735	17331	18.7	37	-N		C	0207			E
CULG	22	0159	0210	0231	N14	W44	.724	17331	18.8	32	-N		C	0210	120	1.8	
VORO	22	0202	0207	0229	N14	W44	.724	17331	18.8	27	1N		C	0207	197	3.1	EJ
LEAR	22	0206	0207	0213D	N14	W45	.735	17331	18.7	7D	-B	3	C		39		D
805 LEAR	22	0206	0209	0231	N06	W37	.612	17333	19.3	25	-N	3	C		45		
806 LEAR	22	0408	0409	0417	S06	E18	.316	17340	23.5	9	-F	3	C		28		
807 LEAR	22	0605	0609	0617	N06	W39	.639	17333	19.3	12	-F	3	C		27		
808 CULG	22	0622	0634U	0636D	N14	W47	.756	17331	18.7	14D	-F		P	0634	100	1.7	
	22	0711	0858	NO FLARE PATROL													
	22	0924	0935	NO FLARE PATROL													
	22	1045	1154	NO FLARE PATROL													
	22	1201	1202	NO FLARE PATROL													
GRP90809	22	1256+2	1258+2	1307	S17	E05	.276	17342	22.9	11	-F						
KANZ	22	1256	1300	1307	S17	E05	.276	17342	22.9	11	-F	2					
RAMY	22	1258	1258	1307	S18	E05	.292	17342	22.9	9	-F	3	C		33		
GRP90810	22	1256+2	1303+3	1321	N11	W58	.858	17331	18.2	25	-N						D
KANZ	22	1256	1303	1315	N12	W59	.868	17331	18.1	19	-N	*					
RAMY	22	1258	1306	1326	N11	W57	.849	17331	18.3	28	-N	*	C		68		D
811 BIGB	22	1617	1620	1637	S19	E03	.301	17342	22.9	20	-N	3	C	1620	190	2.0	
812 BIGB	22	1813	1820	1910	N30	E58	.896	17346	27.1	57	1F	3	C	1820	150	2.9	
813 CULG	22	2027	2035	2046	N15	E36	.634	17341	25.6	19	-N		C	2035	70	.9	
814 CULG	22	2043	2047	2056	N13	W54	.825	17331	18.8	13	-F		C	2047	40	.7	
815 CULG	22	2104	2115	2127	S24	E74	.964	17348	28.4	23	-F		C	2115	60		
816 CULG	22	2207	2212	2229	S21	E71	.949	17348	28.2	22	-F		C	2212	50		
817 CULG	22	2238	2255	2306	N32	E53	.870	17346	26.9	28	-F		C	2255	60	1.2	F
818 CULG	22	2256	2303	2329	S18	E00	.280	17342	23.0	33	-F		C	2303	40	.4	
819 CULG	22	2308	2315	2332	S21	E71	.949	17348	28.3	24	?F		C	2315	120		
			IMP.1 NO : BIGB														

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
820 CULG	22	2309	2312	2324	N07	W68	.930	17331	17.9	15	-N	C	2312	60	1.5	
821 CULG	22	2315	2318	2329	N17	E37	.656	17341	25.7	14	-N	C	2318	50	.7	
822 CULG	22	2329	2330	2337	S03	E08	.141	17340	23.6	8	-F	C	2330	40	.4	
GRP90823	22	2335+3	2338+4	2359	N29	E53	.859	17346	27.0	24	-F			45	.9	
CULG	22	2335	2342	0002	N30	E54	.870	17346	27.0	27	-N	C	2342	60	1.2	
LEAR	22	2338	2338	2355	N28	E53	.856	17346	27.0	17	-F	3 C		28		
824 CULG	23	0020	0026	0041	N11	W51	.792	17333	19.2	21	-F	C	0026	60	1.0	
GRP90825	23	0047+3	0055+3	0133	N14	W57	.854	17331	18.8	46	2N			410	7.8	
CULG	23	0047	0055	0147	N14	W56	.845	17331	18.8	60	2N	C	0055	400	8.0	
LEAR	23	0050	0058	0133	N13	W58	.861	17331	18.7	43	2N	3 C		416		
YUNN	23	0122E	0122	0125	N16	W57	.858	17331	18.8	3D	-N	P		48	1.0	
GRP90826	23	0311+4	0317+0	0335	S15	W17	.363	17336	21.9	24	-F			60	.6	
CULG	23	0311	0317	0340	S15	W17	.363	17336	21.9	29	-N	C	0317	70	.7	
LEAR	23	0315	0317	0329	S16	W17	.373	17336	21.9	14	-F	3 C		53		
827 LEAR	23	0520	0523	0529D	S19	W20	.438	17336	21.7	9D	-F	3 C		46		
828 CULG	23	0534	0535	0544	N30	E52	.856	17346	27.1	10	-F	C	0535	40	.8	
GRP90829	23	0626+6	0635 0644	0705	N13	W59	.869	17331	18.8	39	-N					
CULG	23	0626	0635	0655	N13	W60	.878	17331	18.8	29	-N	C	0635	50	1.1	
LEAR	23	0632	0644	0714D	N13	W59	.869	17331	18.8	42D	1N	3 C		140		
830 ABST	23	0803	0804	0810	S26	E75	.969	17348	29.0	7	-F	C	0804	87		EJ
831 LEAR	23	0827	0828	0840	N16	E29	.556	17341	25.5	13	-F	3 C		70		
	23	1113	1119	NO FLARE PATROL												
	23	1131	1149	NO FLARE PATROL												
	23	1206	1221	NO FLARE PATROL												
	23	1229	1259	NO FLARE PATROL												
	23	1434	1456	NO FLARE PATROL												
832 HOLL	23	1544	1544	1553	N13	W68	.934	17331	18.6	9	-F	2 C		22		
GRP90833	23	1602+4	1607+3	1617	S23	E63	.903	17348	28.4	15	-N			50	1.2	
BIGB	23	1602	1607	1627	S23	E65	.916	17348	28.5	25	-N	3 C	1607	70	1.7	
HOLL	23	1606	1607	1617	S25	E62	.898	17348	28.3	11	-N	2 C		43		
RAMY	23	1606	1610	1615	S22	E63	.901	17348	28.4	9	-F	3 C		25		
834 BIGB	23	1728	1731	1745	N18	E27	.548	17341	25.8	17	-F	3 C	1731	60	.7	
GRP90835	23	1839+2	1846+0	1910	N28	E43	.777	17346	27.0	31	-F			110	1.7	
BIGB	23	1839	1846	1913	N28	E43	.777	17346	27.0	34	-F	3 C	1846	130	1.8	
HOLL	23	1841	1846	1907	N29	E43	.782	17346	27.0	26	-F	3 C		103		
836 CULG	23	2212	2218	2229	S25	E67	.930	17348	28.9	17	-F	C	2218	40		T
837 CULG	23	2335	2337	2348	S09	W74	.961	17332	18.4	13	-N	C	2337	50		
838 CULG	23	2357	2403	0013	S24	E60	.883	17348	28.5	16	-F	C	2403	60	1.3	
839 CULG	24	0042	0051 IMP.1	0101 NO : PURP	S26 YUNN	E60	.886	17348	28.5	19	?B	C	0051	120	2.4	HT
840 CULG	24	0102	0110 IMP.1	0129 NO : PURP	N13 YUNN	W68	.934	17331	18.9	27	?N	C	0110	140		FKI
GRP90841	24	0146+2	0149+2	0159	S26	E59	.878	17348	28.5	13	-F			60	1.3	
CULG	24	0146	0149	0159	S26	E61	.893	17348	28.6	13	-N	C	0149	80	1.7	T
LEAR	24	0148	0151	0159	S26	E58	.871	17348	28.4	11	-F	3 C		44		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90842	24	0249+2	0252+0	0257	S09	W78	.978	17332	18.3	8	-F					
CULG	24	0249	0252	0257	S09	W80	.984	17332	18.1	8	-N	C	0252	40		
LEAR	24	0251	0252	0257	S10	W76	.970	17332	18.4	6	-F	3 C				
843 CULG	24	0416E	0416E	0424	S26	E60	.886	17348	28.7	8D	-F	P	0416	60	1.2	T
844 CULG	24	0453	0454	0504	N15	E18	.417	17341	25.6	11	-F	C	0454	100	1.1	
845 CULG	24	0453	0502	0508	S23	E10	.393	17349	25.0	15	-N	C	0502	100	1.1	T
846 CULG	24	0620	0627	0651	N14	W14	.361	17337	23.2	31	-N	C	0627	160	1.8	FL
847 CULG	24	0629	0634	0651	N04	W13	.247	17344	23.3	22	-N	C	0634	140	1.4	
848 CULG	24	0654	0702	0713	N08	W88	1.000	17331	17.7	19	-F	C	0702	30		
849 KANZ	24	1056	1059	1106	S10	E86	.997	17352	30.9	10	-F	2				
	24	1107	1150	NO FLARE PATROL												
850 WEND	24	1151E		1213D	N29	E34	.707	17346	27.0	22D	-F	C	1151	28	.4	
GRP90851	24	1244	1248 1305	1314	S10	E72	.951	17352	29.9	30	-B					AD
RAMY	24	1244	1248	1314	S09	E70	.939	17352	29.8	30	-B	3 C				D
WEND	24	1256E		1313	S10	E71	.945	17352	29.9	17D	-N	C	1256	62		
WEND	24	1303	1305	1313	S11	E78	.978	17352	30.4	10	-B	C	1305	25		A
852 WEND	24	1418	1424	1452	N17	E16	.418	17341	25.8	34	-F	C	1424	82	.9	
GRP90853	24	1424+2	1425+5	1450	S16	W36	.617	17336	21.9	26	-N			70	.9	
RAMY	24	1424	1425	1456	S16	W36	.617	17336	21.9	32	-N	3 C		80		
WEND	24	1426	1430	1443	S16	W36	.617	17336	21.9	17	-N	C	1430	56	.7	
GRP90854	24	1432+4	1435+4	1443	S24	E60	.882	17348	29.1	11	-F			30	.7	
RAMY	24	1432	1435	1443	S26	E65	.919	17348	29.5	11	-F	3 C		22		
WEND	24	1436	1439	1443	S22	E55	.839	17348	28.7	7	-F	C	1439	38	.7	
855 RAMY	24	1542	1543	1608	S11	E77	.974	17352	30.4	26	-F	3 C				
856 RAMY	24	1556	1559	1602	S17	W21	.431	17342	23.1	6	-F	3 C		24		
GRP90857	24	1620+0	1628+0	1641	S09	E70	.939	17352	29.9	21	-F			50		
BIGB	24	1620	1628	1642	S09	E70	.939	17352	29.9	22	1F	2 C	1628	70	2.1	
HOLL	24	1620	1628	1639	S10	E71	.945	17352	30.0	19	-F	3 C		37		
GRP90858	24	1658+1	1700+3	1706	S25	E49	.793	17348	28.4	8	-F			40	.7	
BIGB	24	1658	1701	1706	S24	E50	.799	17348	28.5	8	-F	2 C	1701	70	1.1	
RAMY	24	1659	1700	1706	S25	E49	.793	17348	28.4	7	-F	3 C		33		
HOLL	24	1659	1703	1706	S26	E49	.796	17348	28.4	7	-F	3 C		30		
859 BIGB	24	1928	1940	1952	S24	E55	.843	17348	28.9	24	1F	2 C	1940	130	2.3	
860 CULG	24	2118	2122	2142	S20	E50	.788	17348	28.6	24	-N	C	2122	60	1.0	F
861 CULG	24	2144	2151	2159	N04	W20	.356	17344	23.4	15	-F	C	2151	40	.4	
862 CULG	25	0101	0108	0115	S08	E64	.898	17352	29.8	14	-F	C	0108	40	.9	
863 CULG	25	0102	0109	0121	N12	E08	.279	17341	25.6	19	-F	C	0109	100	1.0	
864 CULG	25	0129	0133	0140	S22	E48	.773	17348	28.7	11	-F	C	0133	40	.6	T
865 CULG	25	0145	0147	0150	S09	E78	.977	17352	30.9	5	-F	C	0147	30		
GRP90866	25	0223+3	0231+3 0241	0305	S11	E66	.914	17352	30.0	42	1N					FU
CULG	25	0223	0231	0319	S09	E68	.927	17352	30.2	56	2N	C	0231	220	5.5	F
PEKG	25	0225	0232	0255	S10	E66	.914	17352	30.1	30	1N	C	0232	118	3.1	E
LEAR	25	0225	0241	0301	S11	E67	.921	17352	30.1	36	1N	3 C		146		
MITK	25	0226	0234	0327	S11	E66	.914	17352	30.1	61	2N	C	0234	300	7.1	FU
YUNN	25	0231E	0231	0245	S12	E66	.914	17352	30.1	14D	-N	P		64		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
867 CULG	25	0313	0320	0330	N14	E08	.309	17341	25.7	17	-F	C	0320	100	1.0	
GRP90868	25	0415+5	0423+6	0446	N05	W33	.555	17338	22.7	31	-N			60	.7	D
CULG	25	0415	0429	0450	N05	W32	.659	17338	22.8	35	-N	C	0429	60	.7	
LEAR	25	0418	0423	0446	N03	W33	.550	17338	22.7	28	-N	3 C		57		
PEKG	25	0420	0426	0445	N05	W35	.583	17338	22.6	25	-N	C	0426	46	.6	D
GRP90869	25	0500+3	0505+0	0508	S21	E44	.729	17348	28.5	8	-F			45	.7	D
CULG	25	0500	0505	0509	S21	E45	.740	17348	28.6	9	-F	C	0505	40	.6	
PEKG	25	0503	0505	0506	S21	E43	.718	17348	28.4	3	-F	C	0505	46	.7	D
870 LEAR	25	0609	0610	0616	N17	W35	.636	17343	22.6	7	-F	3 C		43		
GRP90871	25	0649	0652+0	0657	S22	E42	.712	17348	28.4	8	-N			50	.7	
LEAR	25	0649	0652	0657	S22	E43	.722	17348	28.5	8	-N	3 C		44		
YUNN	25	0652E	0652	0657	S22	E42	.712	17348	28.4	5D	-N	P		64	1.0	
872 LEAR	25	0702	0704	0709	S24	E44	.741	17348	28.6	7	-N	3 C		52		
873 LEAR	25	0716	0718	0727	S08	E59	.857	17352	29.7	11	-B	3 C		96		D
GRP90874	25	0956+1	1000+0	1016	S17	W30	.545	17342	23.2	20	-F					
KANZ	25	0956	1000	1023	S17	W30	.545	17342	23.2	27	-F	2				
LEAR	25	0957	1000	1008	S18	W31	.563	17342	23.1	11	-F	3 C		43		
875 KANZ	25	1107	1111	1121	S09	E63	.891	17352	30.2	14	-F	3				
GRP90876	25	1239+4	1251+1	1258	S21	E39	.674	17348	28.5	19	-F					H
KANZ	25	1239	1251	1301	S20	E39	.670	17348	28.5	22	-N	3				
WEND	25	1243	1252	1254	S22	E39	.679	17348	28.5	11	-F	C	1252	50	.7	H
877 KANZ	25	1254	1302	1313	N19	W01	.361	17341	25.5	19	-F	3				H
GRP90878	25	1329+1		1402	N20	W03	.380	17341	25.3	33	-F					DL
KANZ	25	1329		1402	N20	W04	.382	17341	25.3	33	-F	3				L
WEND	25	1330		1401	N21	W02	.394	17341	25.4	31	-N	C	1344	25	.3	D
GRP90879	25	1343>9	1359+3 1411	1420	S22	E39	.679	17348	28.5	37	-B			100	1.4	L
KANZ	25	1343	1359	1406D	S21	E43	.718	17348	28.8	23D	-B	3				
RAMY	25	1354	1359	1422	S22	E38	.668	17348	28.4	28	1B	3 C		115		D
WEND	25	1358	1402	1411	S23	E43	.726	17348	28.8	13	-B	C	1402	75	1.1	
WEND	25	1411	1411	1417	S23	E36	.651	17348	28.3	6	-N	C	1411	53	.7	EL
880 HOLL	25	1640	1640	1647	S22	E37	.657	17348	28.5	7	-F	3 C		66		
GRP90881	25	1859	1912	1922	S25	E34	.642	17348	28.3	23	-N					
HOLL	25	1859	1912	1920	S26	E34	.649	17348	28.3	21	-N	3 C		151		
RAMY	25	1906E		1923D	S29	E34	.642	17348	28.3	17D	-N	3 C		36		
882 RAMY	25	2052	2052U	2101	S09	E51	.779	17352	29.7	9	-N	3 C		44		
883 CULG	25	2230E	2230U	2238	S06	E50	.766	17352	29.7	8D	-F	C	2230	20	.4	
884 CULG	25	2251	2252	2308	N24	E55	.861	17350	30.1	17	-F	C	2252	40	.8	
885 CULG	25	2257E	2257	2310	S22	E33	.612	17348	28.4	13D	-N	C	2257	80	1.0	
886 CULG	25	2325	2326	2328	S04	E50	.766	17352	29.7	3	-N	C	2326	40	.6	
887 CULG	25	2325	2355U	0038	S28	E47	.785	17355	29.5	73	-F	C	2355	100	1.6	
888 CULG	25	2351	2358	0039	N20	W44	.749	17343	22.7	48	1N	C	2358	180	2.7	
889 CULG	26	0014	0018	0027	N30	E18	.596	17346	27.4	13	-F	C	0018	30	.4	
890 CULG	26	0158	0206U	0206D	S10	E55	.821	17352	30.2	8D	-N	P	0206	70	1.1	F
891 CULG	26	0227E	0227U	0230D	S23	E30	.584	17348	28.4	3D	-F	P	0227	40	.5	H

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP90892	26	0233+2	0237+0	0243	S24	E28	.569	17348	28.2	10	-F			80	1.0	
LEAR	26	0233	0237	0243	S24	E29	.580	17348	28.3	10	-F	3 C		112		
YUNN	26	0235	0237	0237D	S24	E28	.569	17348	28.2	2D	-N	P		48	.6	
893 LEAR	26	0306	0309	0314	N24	E51	.830	17350	30.0	8	-F	3 C		38		
894 CULG	26	0336	0340	0414	N04	W46	.724	17338	22.7	38	-N	C	0346	80	1.2	
GRP90895	26	0617+9	0625+4	0633	S26	E28	.586	17348	28.4	16	-N			100	1.2	
PURP	26	0617	0628	0635	S26	E29	.596	17348	28.4	18	1N	C				
LEAR	26	0624	0625	0633	S25	E28	.578	17348	28.4	9	-N	3 C		105		
YUNN	26	0626	0629	0631	S26	E28	.586	17348	28.4	5	-B	C		96	1.3	
GRP90896	26	0720+2	0721 0729+4	0803	S22	E33	.611	17348	28.8	43	1B			350	4.5	FJKW
ABST	26	0720	0729	0806	S18	E34	.600	17348	28.9	46	1N	C	0729	262	3.4	FJ
YUNN	26	0720	0721	0735D	S23	E33	.617	17348	28.8	15D	2B	P	0728	450	6.0	FKW
PEKG	26	0722	0731	0751	S21	E33	.605	17348	28.8	29	1B	C	0731	315	4.1	F
PURP	26	0722E	0733	0800	S22	E33	.611	17348	28.8	38D	1B	C	0733	377	4.9	KW
PURP	26	0722E	0729	0800	S22	E33	.611	17348	28.8	38D	1B	C				
CATA	26	0735E	0740	0810	S22	E32	.599	17348	28.7	35D	1F	2 P	0740	394	5.1	
897 PURP	26	0800E	0800	0803	N29	E11	.544	17346	27.2	3D	?F	P				
			IMP.1 NO : ABST CATA													
898 ABST	26	0812	0820	0825	N18	E36	.654	17361	29.0	13	-F	C	0820	87	1.2	DJ
GRP90899	26	0813+2	0815+1	0823	S24	E27	.559	17348	28.4	10	-F			120	1.5	DJ
ABST	26	0813	0816	0820	S23	E27	.550	17348	28.4	7	-N	C	0816	131	1.6	DJ
CATA	26	0815	0815	0825	S26	E27	.576	17348	28.4	10	-F	2 C	0815	112	1.4	
900 ABST	26	0816	0820	0855	N15	W46	.751	17337	22.9	39	-F	C	0820	87	1.3	DJ
901 CATA	26	0900	0902	0905	S26	E27	.576	17348	28.4	5	-F	2 C	0902	56	.7	
	26	0906	0907	NO FLARE PATROL												
902 HTPR	26	1339	1348	1354	N20	W18	.476	17341	25.2	15	-F	C	1348	20	.2	E
GRP90903	26	1353+1	1355+4	1412	S20	E29	.551	17348	28.8	19	-F			40	.5	
HTPR	26	1353	1359	1420	S21	E29	.558	17348	28.8	27	-N	C	1359	40	.4	
RAMY	26	1354	1355	1404	S20	E29	.551	17348	28.8	10	-F	3 C		41		
904 HTPR	26	1430	1437	1500	N28	E04	.508	17346	26.9	30	-F	C	1437	20	.2	E
905 HTPR	26	1518		1521D	N16	W17	.420	17341	25.4	3D	-F	C	1518	20	.2	
906 HOLL	26	1639	1643	1658	S10	E49	.758	17352	30.4	19	-F	3 C		35		
GRP90907	26	1654+2	1658+0	1706	S26	E23	.536	17348	28.4	12	-F			90	1.1	
RAMY	26	1654	1658	1708	S26	E22	.527	17348	28.4	14	-F	3 C		77		
HOLL	26	1655	1658	1706	S29	E23	.567	17348	28.4	11	-F	3 C		107		
BIGB	26	1656	1658	1705	S26	E24	.546	17348	28.5	9	-F	2 C	1658	90	1.0	
GRP90908	26	1714>9	1746+1	1827	N11	W49	.772	17337	23.0	73	-F			130	2.0	
HOLL	26	1714	1747	1827	N11	W48	.761	17337	23.1	73	-F	3 C		140		
BIGB	26	1726	1746	1826	N11	W51	.793	17337	22.9	60	-F	2 C	1746	120	1.9	
909 HOLL	26	1858	1908	1918	N23	E35	.675	17357	29.4	20	-F	3 C		47		
GRP90910	26	2007+2	2009 2015+2	2025	N27	E03	.491	17346	27.1	18	-F			90	1.0	
RAMY	26	2007	2009	2025	N27	E03	.491	17346	27.1	18	-F	3 C		80		
HOLL	26	2009	2015	2025	N24	E03	.445	17346	27.1	16	-F	3 C		97		
CULG	26	2013E	2017	2021	N28	E05	.510	17346	27.2	8D	-F	C	2017	80	.9	
GRP90911	26	2014+1	2015+2	2021	S21	E21	.466	17348	28.4	7	-F			45	.5	
CULG	26	2014	2017	2021	S21	E22	.477	17348	28.5	7	-N	C	2017	60	.7	
RAMY	26	2015	2015	2020	S22	E21	.476	17348	28.4	5	-F	3 C		28		
912 CULG	26	2030	2052U	2114U	S10	E45	.712	17352	30.2	44D	-F	C	2052	70	1.0	JT

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
913 CULG	26	2032	2036	2115	S24	E22	.506	17348	28.5	43	-N		C	2036	120	1.4	H
914 CULG	26	2039	2042	2048	S33	W44	.781		23.6	9	-F		C	2042	20	.3	
GRP90915	26	2310+5	2316+2	2331	N24	E39	.721	17350	29.9	21	-N				70	1.0	
CULG	26	2310	2318	2333	N24	E41	.740	17350	30.0	23	-N		C	2318	90	1.4	
BIGB	26	2314	2316	2336	N25	E40	.736	17350	30.0	22	-N	2	C	2315	20	.3	
MANI	26	2315	2317	2322	N24	E39	.721	17350	29.9	7	-N	1	V		50	.8	
HOLL	26	2315	2316	2329	N20	E39	.698	17350	29.9	14	-N	3	C		86		
916 CULG	26	2314U	2348	0049U	S10	E44	.699	17352	30.3	95D	?N		C	2348	170	2.4	JT
		IMP.1 NO : MITK															
917 CULG	26	2317	2326	2344	S24	E20	.486	17348	28.5	27	-N		C	2326	90	1.0	H
918 CULG	27	0002	0008	0019	S25	E19	.488	17348	28.4	17	-N		C	0008	80	1.0	HT
919 CULG	27	0101	0121	0137	S10	E37	.610	17352	29.8	36	-F		C	0121	80	1.0	
920 CULG	27	0151	0156	0212U	N28	E02	.505	17346	27.2	21D	-F		C	0156	80	.9	
GRP90921	27	0152>9	0234+5	0257	N25	E39	.726	17350	30.0	65	-F						E
CULG	27	0152	0234	0311	N25	E39	.726	17350	30.0	79	-N		C	0234	80	1.2	
PEKG	27	0238	0239	0243	N25	E40	.736	17350	30.1	5	-F		P	0239	34	.5	E
GRP90922	27	0235+6	0241+1	0250	S22	E18	.445	17348	28.5	15	-B						EH
CULG	27	0235	0241	0253	S21	E18	.433	17348	28.5	18	1B		C	0241	200	2.2	T
PURP	27	0241	0242	0245	S22	E18	.445	17348	28.5	4	-N		C				E
CULG	27	0248	0251	0254	S24	E18	.467	17348	28.5	6	-F		C	0251	30	.3	HT
923 LEAR	27	0319	0324	0327D	N25	E39	.726	17350	30.1	8D	-N	3	C		22		
924 PEKG	27	0425	0427	0437	N25	E38	.717	17350	30.0	12	-F		P	0427	34	.5	E
GRP90925	27	0427+8	0437	0445D	S10	E40	.649	17352	30.2	18	-F						DJ
CULG	27	0427	0452	0549U	S10	E40	.649	17352	30.2	82D	-F		C	0452	60	.8	JT
PEKG	27	0435	0437	0445	S10	E41	.662	17352	30.3	10	-F		P	0437	50	.7	D
926 PEKG	27	0427E	0427	0427D	S23	E23	.507	17348	28.9		-F		P	0427	34	.4	D
GRP90927	27	0540+0	0541+5	0612	S22	E21	.476	17348	28.8	32	-N						E
MITK	27	0540	0541	0625	S23	E19	.466	17348	28.7	45	-N		C	0541			E
PEKG	27	0540	0543	0625	S22	E21	.476	17348	28.8	45	-N		C	0543	71	.8	E
PURP	27	0540	0542	0557	S22	E23	.498	17348	29.0	17	1N		C				
CULG	27	0540U	0546	0613D	S22	E21	.476	17348	28.8	33D	1N		C	0546	290	3.3	
YUNN	27	0540E	0541	0544	S22	E20	.465	17348	28.7	4D	-N		P		161	1.9	E
928 PEKG	27	0740	0746	0755	N27	E29	.649	17357	29.5	15	-F		C	0746	63	.9	D
GRP90929	27	0740+4	0745+5	0800	S27	E20	.520	17348	28.8	20	-N				160	1.9	E
PEKG	27	0740	0745	0759	S27	E21	.529	17348	28.9	19	-N	*	C	0745	88	1.1	E
CATA	27	0740	0745	0800D	S27	E21	.529	17348	28.9	20D	1F	*	P	0745	394	4.8	
YUNN	27	0744	0747	0750	S27	E20	.520	17348	28.8	6	-N	*	P		161	1.9	
ATHN	27	0748E	0750	0816	S22	E19	.455	17348	28.7	28D	-B	*	V	0750	159	1.8	
930 CATA	27	0900	0900	0905	S23	E20	.476	17348	28.9	5	-F	2	C	0900	68	.8	
GRP90931	27	1008	1012+0	1051	S23	E17	.446	17348	28.7	43	1B				330	3.7	FK
YUNN	27	1008	1012	1020D	S23	E17	.446	17348	28.7	12D	1B		P		353	4.1	FK
ATHN	27	1010E	1012	1051	S23	E17	.446	17348	28.7	41D	1B	3	V	1012	318	3.6	
	27	1151	1214	NO FLARE PATROL													
932 RAMY	27	1332	1332	1341	N26	E33	.677	17350	30.0	9	-F	3	C		29		
933 RAMY	27	1442	1443	1457	S08	E32	.535	17352	30.0	15	-F	3	C		82		
	27	1523	1526	NO FLARE PATROL													
934 HOLL	27	1701	1701	1705	S24	E13	.425	17348	28.7	4	-F	3	C		23		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
935 HOLL	27	1720	1721	1730	N27	E24	.606	17357	29.5	10	-F	3 C		32		
936 HOLL	27	1754	1754	1807	S26	E15	.466	17348	28.9	13	-F	3 C		22		
GRP90937	27	1802+2	1810+1	1903	S10	E32	.541	17352	30.2	61	-N			110	1.3	
RAMY	27	1802	1810	1906	S10	E31	.526	17352	30.1	64	-N	3 C		106		
BIGB	27	1803	1811	1901	S10	E32	.541	17352	30.2	58	-F	2 C	1811	40	.5	
HOLL	27	1804	1810	1903	S10	E32	.541	17352	30.2	59	-N	3 C		113		
938 CULG	27	2129	2130	2135	N25	E29	.631	17350	30.1	6	-F	C	2130	70	.9	
939 CULG	27	2212	2215U	2235U	S21	E09	.354	17348	28.6	23D	-F	C	2215	50	.6	
940 CULG	27	2219	2226U	2250D	S13	E30	.524	17352	30.2	31D	-F	P	2226	110	1.3	
GRP90941	27	2241+1	2242+1	2249	S23	E10	.389	17348	28.7	8	-N			45	.5	
CULG	27	2241	2243	2250U	S23	E11	.396	17348	28.8	9D	-N	C	2243	60	.7	
HOLL	27	2242	2242	2247	S24	E10	.404	17348	28.7	5	-N	3 C		28		
942 CULG	27	2309	2314	2355U	S24	E10	.404	17348	28.7	46D	-N	C	2314	120	1.3	HF
943 CULG	27	2315	2316	2322	S03	E28	.469	17352	30.1	7	-F	C	2316	90	1.0	H
944 CULG	27	2338U	2407	0045U	S12	E25	.448	17352	29.9	67D	-N	C	2407	70	.8	
945 CULG	27	2344	2344	2346	S10	E55	.821	17360	1.1	2	-F	C	2344	50	1.0	
946 CULG	28	0100	0109	0121	S25	E03	.386	17348	28.3	21	-B	C	0109	100	1.1	H
947 CULG	28	0301	0302	0309	S12	E30	.518	17352	30.4	8	-F	C	0302	100	1.2	
948 CULG	28	0318	0321	0343	S07	W63	.890	17340	23.4	25	?F	C	0321	110	2.5	F
			IMP.1 NO : MITK PURP YUNN													
949 CULG	28	0353	0356	0410	S12	E29	.504	17352	30.3	17	-N	C	0356	30	.3	
950 CULG	28	0359	0402	0411U	S21	E06	.332	17348	28.6	12D	?N	C	0402	200	2.1	F
			IMP.1 NO : MITK PURP YUNN													
951 CULG	28	0434	0437	0439	S23	E07	.368	17348	28.7	5	-N	C	0437	110	1.2	
GRP90952	28	0451+3	0456+0	0510	S11	E20	.368	17352	29.7	19	-N			140	1.5	E
PEKG	28	0451E	0456	0510	S11	E20	.368	17352	29.7	19D	-N	P	0456	126	1.4	E
MITK	28	0454	0456	0511	S12	E20	.374	17352	29.7	17	-N	C	0456			E
YUNN	28	0455E	0456	0459	S11	E20	.368	17352	29.7	4D	-N	P		161	1.8	E
953 LEAR	28	0609	0611	0617	N14	E13	.357	17361	29.2	8	-F	2 C		41		
954 LEAR	28	0902	0903	0907	N14	E10	.330	17361	29.1	5	-F	3 C		31		
GRP90955	28	0919+4	0922+1	0937	N16	E09	.351	17361	29.1	18	-F			30	.3	E
HTPR	28	0919	0922	0940	N17	E08	.359	17361	29.0	21	-F	C	0922	20	.2	E
LEAR	28	0923	0923	0934	N15	E10	.344	17361	29.1	11	-N	3 C		43		
GRP90956	28	0947+3	0950+1	0955	N14	E07	.307	17361	28.9	8	-N			50	.5	E
HTPR	28	0947	0950	0955	N15	E05	.312	17361	28.8	8	-N	C	0950	70	.7	E
LEAR	28	0950	0951	0954	N14	E07	.307	17361	28.9	4	-N	3 C		42		
CATA	28	0950	0950	0955	N13	E07	.292	17361	28.9	5	-F	2 C	0950	39	.4	
957 HTPR	28	0957	1001	1012	S20	E04	.308	17348	28.7	15	-F	C	1001	10	.1	
958 HTPR	28	1038	1044	1053	S09	E16	.295	17352	29.6	15	-F	C	1044	20	.2	E
GRP90959	28	1110>9	1113 1131+7	1140	S22	E02	.335	17348	28.6	30	1N			230	2.5	E
HTPR	28	1110	1113	1130	S21	E04	.324	17348	28.8	20	-F	C	1113	20	.2	
HTPR	28	1127	1131	1138	S21	E02	.319	17348	28.6	11	1N	C	1131	230	2.3	E
WEND	28	1131	1134	1140	S22	E01	.334	17348	28.6	9	1N	C	1134	275	3.0	
ATHN	28	1135E	1138	1145	S23	E02	.352	17348	28.6	10D	-B	2 V	1138	80	.9	
960 HTPR	28	1131	1138	1144	S13	E01	.183		28.6	13	*-F	C	1138	40	.4	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
961 HTPR	28	1200	1201	1214	S23	W01	.351	17348	28.4	14	-F		C	1201	20	.2	
962 HTPR	28	1212	1214	1225	S18	W09	.306	17356	27.8	13	-F		C	1214	30	.3	E
963 RAMY	28	1244	1312	1436	N15	E08	.329	17361	29.1	112	-F	3	C		53		
GRP90964	28	1256+0	1258+3	1322	S09	E22	.388	17352	30.2	26	-N						
KANZ	28	1256	1301	1320	S09	E20	.357	17352	30.0	24	-F	2					
HTPR	28	1256	1258	1313	S07	E26	.443	17352	30.5	17	-B		C	1258	30	.3	
HTPR	28	1256	1258	1323	S10	E22	.392	17352	30.2	27	-N		C	1258	30	.3	
965 HTPR	28	1257	1258	1306	S23	W01	.351	17348	28.5	9	-N		C	1258	30	.3	
966 HTPR	28	1344	1346	1352	S24	W01	.367	17348	28.5	8	-B		C	1346	60	.6	
967 HTPR	28	1402	1404	1407	N16	E19	.444	17351	30.0	5	-F		C	1404	20	.2	E
968 HTPR	28	1409	1410	1419	S10	E17	.317	17352	29.9	10	-F		C	1410	30	.3	E
GRP90969	28	1429+3	1431+2	1441	S22	00	.334	17348	28.6	12	-F				70	.7	E
HTPR	28	1429	1431	1440	S22	E01	.334	17348	28.7	11	-N		C	1431	60	.6	E
RAMY	28	1432	1433	1442	S22	W01	.334	17348	28.5	10	-F	3	C		87		
970 RAMY	28	1540	1542	1545	S24	W04	.372	17348	28.4	5	-F	3	C		22		
	28	1609	1613	NO FLARE PATROL													
	28	1626	1634	NO FLARE PATROL													
GRP90971	28	1718	1723+1	1810	S20	E01	.301	17348	28.8	52	-N						
BIGB	28	1718	1724	1759	S20	E02	.303	17348	28.9	41	-N	1	C	1724	60	.6	
HOLL	28	1721E	1723U	1821	S20	E01	.301	17348	28.8	60D	-N	2	C		177		
GRP90972	28	1904+1	1907+2	1929	S22	W05	.344	17348	28.4	25	-B				130	1.4	
HOLL	28	1904	1907	1929	S22	W05	.344	17348	28.4	25	1B	3	C		308		
BIGB	28	1905	1909	1927	S24	W05	.375	17348	28.4	22	-N	2	C	1909	100	1.0	
PALE	28	1905	1908	1929	S22	W04	.340	17348	28.5	24	-B	2	C		133		
GRP90973	28	1924+0	1928+0	1939	N15	00	.301	17361	28.8	15	-F				50	.5	
BIGB	28	1924	1928	1944	N15	W03	.305	17361	28.6	20	-F	2	C	1928	40	.4	
HOLL	28	1924	1928	1934	N15	E03	.305	17361	29.0	10	-N	3	C		67		
974 HOLL	28	1951	2000	2010	S24	W01	.367	17348	28.8	19	-N	3	C		62		
975 HOLL	28	2122	2137	2149D	S22	W06	.348	17348	28.4	27D	-B	3	C		161		D
GRP90976	28	2306+1	2310+2	2320	S25	W05	.391	17348	28.6	14	-N				60	.7	
LEAR	28	2306E	2312	2317	S24	W04	.372	17348	28.7	11D	-N	3	C		60		
BIGB	28	2307	2310	2322	S26	W07	.414	17348	28.4	15	-N	2	C	2310	60	.6	
GRP90977	28	2339+1	2340+2 2352	0025	S23	W08	.373	17348	28.4	46	-N				50	.5	H
BIGB	28	2339	2342	2359U	S24	W09	.394	17348	28.3	20D	-F	2	P	2342	50	.5	
MITK	28	2340	2340	2343D	S25	W08	.403	17348	28.4	3D	-N		C	2340			D
LEAR	28	2342E	2342U	0037	S23	W08	.373	17348	28.4	55D	-B	3	C		60		D
MITK	28	2350E	2352	2358	S21	W06	.332	17348	28.5	8D	-F		C	2352			H
MITK	28	2355	2400	0013	S23	W07	.368	17348	28.5	18	-B		C	2400			EH
978 LEAR	28	2348	2402	0034	S08	E14	.259	17352	30.0	46	-F	3	C		147		
GRP90979	29	0024+6	0026+7	0035	S22	W08	.356	17348	28.4	11	-N				50	.5	EH
MITK	29	0024	0026	0035	S23	W08	.371	17348	28.4	11	-B	*	C	0026			H
PURP	29	0026E	0029	0038	S22	W09	.363	17348	28.3	12D	-N	*	C				E
PALE	29	0026E	0029	0035	S22	W08	.356	17348	28.4	9D	-F	*	C		49		
YUNN	29	0030	0033	0035	S22	W09	.363	17348	28.3	5	-N	*	C		48	.5	
GRP90980	29	0036+1	0038+4	0050	S06	E13	.232	17352	30.0	14	-F						
MITK	29	0036	0038	0048	S03	E12	.208	17352	29.9	12	-F		C	0038			
LEAR	29	0037	0042	0051	S09	E14	.264	17352	30.1	14	-F	3	C		39		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP90981	29	0148+4	0153+3	0200	S21	W07	.336	17348	28.5	12	1N				220	2.4	EH
MITK	29	0148	0153	0200	S22	W07	.351	17348	28.5	12	-N		C	0153			H
LEAR	29	0149	0155	0200	S24	W05	.373	17348	28.7	11	1N	3	C		250		
VORO	29	0150	0154	0204	S21	W08	.341	17348	28.5	14	1F		C	0154	224	2.4	EH
PALE	29	0150	0156	0159	S21	W06	.330	17348	28.6	9	-F	2	C		51		
PURP	29	0152	0155	0158	S21	W09	.348	17348	28.4	6	1N		C				
982 PURP	29	0230	0233	0238D	S21	W07	.336	17348	28.6	8D	-N		C				D
GRP90983	29	0316+3	0322+0	0327	N14	W01	.287	17361	29.1	11	-F				50	.5	EJ
LEAR	29	0316	0322	0325	N14	E00	.286	17361	29.1	9	-N	3	C		38		
VORO	29	0319	0322	0329	N15	W02	.305	17361	29.0	10	-F		C	0322	68	.7	EJ
GRP90984	29	0323+6	0326+4	0341	S26	W07	.412	17348	28.6	18	-N						E
LEAR	29	0323	0326	0344	S24	W06	.377	17348	28.7	21	-N	3	C		166		
VORO	29	0324	0329	0343	S27	W08	.431	17348	28.5	19	1N		C	0329	188	2.1	E
YUNN	29	0325	0329	0332	S26	W08	.416	17348	28.5	7	-N		P		48	.5	E
PEKG	29	0326	0328	0337	S26	W07	.412	17348	28.6	11	-F		P	0328	17	.2	E
PURP	29	0329	0330	0343	S25	W06	.393	17348	28.7	14	1N		C				
GRP90985	29	0357+2	0400+1	0408	S21	W10	.355	17348	28.4	11	-N						E
PEKG	29	0357	0401	0408	S21	W10	.355	17348	28.4	11	-N		C	0401	105	1.2	E
PURP	29	0359	0400	0408	S21	W10	.355	17348	28.4	9	1N		C				
986 PEKG	29	0400	0401	0409	S19	W15	.374	17356	28.0	9	-N		C	0401	34	.4	E
GRP90987	29	0422+2	0425+1	0434	S22	W10	.369	17348	28.4	12	1N				360	3.9	EH
LEAR	29	0422	0426	0441	S23	W10	.384	17348	28.4	19	1B	3	C		414		D
MITK	29	0423	0425	0434	S25	W11	.419	17348	28.4	11	-N		C	0425			EH
PEKG	29	0423	0426	0436	S21	W09	.348	17348	28.5	13	-N		C	0426	126	1.4	E
PURP	29	0424	0425	0431	S21	W10	.355	17348	28.4	7	1B		C	0425	453	5.0	
YUNN	29	0425E	0425	0432	S22	W10	.369	17348	28.4	7D	1N		P		321	3.6	
GRP90988	29	0600+2	0600+3	0616	S22	W11	.377	17348	28.4	16	-F				45	.5	E
PEKG	29	0600	0602	0615	S21	W11	.363	17348	28.4	15	-F		C	0602	63	.7	E
LEAR	29	0600	0600	0616	S22	W11	.377	17348	28.4	16	-F	3	C		29		
MITK	29	0602	0603	0620	S22	W09	.363	17348	28.6	18	-N		C	0603			E
MITK	29	0602	0603	0610	S24	W12	.412	17348	28.4	8	-N		C	0603			E
GRP90989	29	0602+1	0606+2	0623	S14	E14	.307	17352	30.3	21	-F						
LEAR	29	0602	0606	0625	S15	E14	.318	17352	30.3	23	-F	3	C		107		
PEKG	29	0603	0608	0623	S11	E11	.238	17352	30.1	20	-F		C	0608	13	.1	D
PEKG	29	0608E	0608	0608D	S14	E14	.307	17352	30.3		-F		P	0608	50	.5	E
990 LEAR	29	0603	0606	0611	N15	W02	.305	17361	29.1	8	-N	3	C		32		
991 LEAR	29	0655	0657	0703	S23	W12	.398	17348	28.4	8	-F	3	C		26		
GRP90992	29	0719+5	0723+3	0733	S24	W13	.419	17348	28.3	14	-N				120	1.3	HJ
ABST	29	0719	0724	0736	S25	W16	.457	17348	28.1	17	1N		C	0724	192	2.2	FJ
PEKG	29	0722	0724	0732	S24	W13	.419	17348	28.3	10	-B		C	0724	139	1.6	E
LEAR	29	0722	0726	0733	S24	W12	.412	17348	28.4	11	-N	3	C		105		D
YUNN	29	0723E	0723	0731	S23	W13	.406	17348	28.3	8D	-N		P		80	.9	H
PURP	29	0724	0725	0733	S25	W12	.426	17348	28.4	9	1N		C				H
993 LEAR	29	0739	0747	0759	S26	W11	.433	17348	28.5	20	-N	3	C		46		
994 HTPR	29	0818	0824	0835	N15	W09	.338	17361	28.7	17	-F		C	0824	60	.6	E
995 HTPR	29	0842	0845	0850	S24	W14	.427	17348	28.3	8	-F		C	0845	40	.4	E
GRP90996	29	0850+4	0853+9	0908	S23	W12	.398	17348	28.5	18	-B						EHZ
KANZ	29	0850	0857	0906	S23	W12	.398	17348	28.5	16	-B	2					
LEAR	29	0851	0857	0924	S23	W12	.398	17348	28.5	33	-B	3	C		196		
HTPR	29	0851	0853	0900	S25	W11	.419	17348	28.5	9	-B		C	0853	40	.4	E
WEND	29	0852	0900	0904	S23	W13	.406	17348	28.4	12	-N		C	0900	56	.6	TZ
WEND	29	0852	0854	0902	S23	W08	.371	17348	28.8	10	-N		C	0854	25	.3	
HTPR	29	0853	0858	0910	S22	W15	.411	17348	28.2	17	-B		C	0858	140	1.4	E
YUNN	29	0854	0859	0907	S21	W14	.389	17348	28.3	13	-N		C		161	1.8	H
ATHN	29	0859E	0902	0908	S23	W10	.384	17348	28.6	9D	-B	2	V	0902	95	1.1	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP90997	29	0918+6	0925+9	0943	N15	W05	.314	17361	29.0	25	-N					E
KANZ	29	0918	0931	0941	N15	W05	.314	17361	29.0	23	-F	2				
HTPR	29	0919	0927	0945	N15	W12	.362	17361	28.5	26	-N	C	0927	50	.5	E
LEAR	29	0924	0934	0944	N14	W05	.298	17361	29.0	20	-N	3 C		35		
YUNN	29	0924	0925	0935	N16	W05	.330	17361	29.0	11	1N	C		274	2.7	E
998 KANZ	29	1022	1032	1044	N28	E02	.510	17357	29.6	22	-F	3				
GRP90999	29	1028+5	1033+4	1051	S23	W14	.414	17348	28.4	23	-B			100	1.1	EL
HTPR	29	1028	1037	1051	S22	W19	.450	17348	28.0	23	-B	C	1037	120	1.2	E
KANZ	29	1029	1033	1044	S23	W14	.414	17348	28.4	15	-B	3				L
WEND	29	1033	1037	1052	S23	W14	.414	17348	28.4	19	-N	C	1037	81	.9	
GRP91000	29	1123+2	1128+7	1147	S25	W12	.426	17348	28.6	24	1N			210	2.4	E
KANZ	29	1123	1128	1147	S26	W12	.439	17348	28.6	24	-N	3				
WEND	29	1125	1132	1146	S26	W12	.439	17348	28.6	21	1N	C	1132	206	2.4	
HTPR	29	1125	1130	1146	S25	W15	.448	17348	28.4	21	1B	C	1130	240	2.4	E
ATHN	29	1132E	1135	1148	S23	W10	.384	17348	28.7	16D	-B	2 V	1135	64	.7	
1 HTPR	29	1204	1205	1214	S21	W15	.398	17348	28.4	10	-F	C	1205	20	.2	
2 RAMY	29	1220	1221	1237	S24	W10	.398	17348	28.8	17	-F	3 C		34		
GRP91003	29	1238+3	1308+2 1317+6	1401	S24	W12	.412	17348	28.6	83	2B					HK
RAMY	29	1238	1317	1318D	S22	W15	.411	17348	28.4	40D	2B	* C		678		D
HTPR	29	1240	1247	1301	S25	W15	.448	17348	28.4	21	-N	C	1247	40	.4	D
KANZ	29	1241	1249	1257	S26	W10	.427	17348	28.8	16	-F	3				
WEND	29	1241	1248	1254	S26	W09	.421	17348	28.9	13	-N	C	1248	88	1.0	E
HTPR	29	1254	1310	1348	S22	W20	.461	17348	28.0	54	1B	C	1310	230	2.3	EK
KANZ	29	1257	1309	1331	S22	W15	.411	17348	28.4	34	1B	*				H
ATHN	29	1300E	1308	1336D	S23	W10	.384	17348	28.8	36D	-B	* V	1308	111	1.3	
WEND	29	1307	1323	1420	S27	W07	.427	17348	29.0	73	2N	* C	1323	863	10.0	F
KANZ	29	1312	1319	1401	S27	W08	.431	17348	28.9	49	2N	*				F
HTPR	29	1314	1321	1336	S24	W13	.419	17348	28.6	22	1B	* C	1321	220	2.2	EK
4 RAMY	29	1301	1302	1304	N15	W05	.314	17361	29.2	3	-F	3 C		22		
GRP91005	29	1341+5	1351+3	1406	S22	W17	.430	17348	28.3	25	-N					
HTPR	29	1341	1354	1406	S22	W20	.461	17348	28.1	25	-B	* C	1354	70	.7	
KANZ	29	1346	1351	1401D	S22	W14	.402	17348	28.5	15D	-N	*				
GRP91006	29	1423+3	1432+1	1441	S23	W16	.432	17348	28.4	18	-N			90	1.0	K
HTPR	29	1404	1432	1440	S22	W21	.472	17348	28.0	36	-B	C	1432	80	.8	EK
RAMY	29	1423	1433	1517	S23	W16	.432	17348	28.4	54	-N	3 C		108		D
WEND	29	1426	1432	1441	S23	W16	.432	17348	28.4	15	-N	C	1432	94	1.0	
GRP91007	29	1446+1	1447+4 1507+1	1515	S24	W17	.453	17348	28.3	29	-B			160	1.8	EK
HTPR	29	1446	1447	1513D	S25	W20	.493	17348	28.1	27D	-B	C	1451	140	1.5	EK
HTPR	29	1446	1451	1513D	S25	W20	.493	17348	28.1	27D	-B	C				
WEND	29	1447	1451	1510	S25	W13	.433	17348	28.6	23	1N	C	1451	181	2.1	
HTPR	29	1500	1507	1515	S22	W21	.472	17348	28.1	15	-N	C	1507	100	1.0	
WEND	29	1506	1508	1514	S23	W16	.432	17348	28.4	8	-N	C	1508	119	1.4	
GRP91008	29	1518+4	1521 1529	1544	S22	W18	.440	17348	28.3	26	-N					E
HTPR	29	1518	1521	1523	S20	W19	.429	17348	28.2	5	-F	C	1521	20	.2	
HTPR	29	1521		1538D	S25	W21	.503	17348	28.1	17D	-N	C	1522	140	1.5	E
RAMY	29	1522	1529	1544	S22	W17	.430	17348	28.4	22	-N	3 C		167		
GRP91009	29	1617+0	1619+0	1628	S22	W18	.440	17348	28.3	11	-N			70	.8	
BIGB	29	1617	1619	1629	S23	W19	.461	17348	28.3	12	-N	2 C	1619	60	.7	
RAMY	29	1617	1619	1626	S22	W18	.440	17348	28.3	9	-B	3 C		82		
10 RAMY	29	1958	1959	2005	S21	W19	.440	17348	28.4	7	-F	3 C		54		
GRP91011	29	2028+1	2031+2	2042	S24	W20	.482	17348	28.4	14	-N			70	.8	
BIGB	29	2028	2031	2044	S25	W21	.503	17348	28.3	16	-F	2 C	2031	70	.8	
RAMY	29	2029	2033	2040	S24	W20	.482	17348	28.4	11	-B	3 C		70		

H - ALPHA SOLAR FLARES

DECEMBER 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
12	BIGB	29	2240	2250	2342	N28	E05	.515	17350	30.3	62	-F	2	C	2250	80	.8	
13	LEAR	29	2248	2253	2317	S23	W18	.451	17348	28.6	29	-N	3	C		72		
14	LEAR	29	2306E	2312	2317	S24	W04	.370	17355	29.7	11D	-N	3	C		60		
15	LEAR	30	0023	0030	0039	S23	W19	.460	17348	28.6	16	-N	3	C		73		
GRP91016		30	0105+2	0108 0114+1	0125	N26	W04	.485	17357	29.7	20	-N				45	.5	D
	LEAR	30	0105	0114	0131	N26	W04	.485	17357	29.7	26	-N	3	C		50		
	PURP	30	0106	0115	0125	N28	W04	.515	17357	29.7	19	-B		C				
	PEKG	30	0107	0108	0125	N26	W05	.487	17357	29.7	18	-N		P	0108	42	.5	D
GRP91017		30	0113+1	0114+3	0126	N14	W14	.370	17361	29.0	13	-F				40	.4	E
	PEKG	30	0113	0114	0125	N15	W16	.403	17361	28.9	12	-F		C	0114	25	.3	E
	LEAR	30	0114	0117	0127	N14	W13	.360	17361	29.1	13	-F	3	C		51		
18	PEKG	30	0246	0249	0251	S24	W25	.532	17348	28.2	5	-F		C	0249	50	.6	D
19	LEAR	30	0257	0258	0320	S09	W01	.110	17352	30.0	23	-F	3	C		29		
GRP91020		30	0308+2	0308+3	0314	S23	W20	.470	17348	28.6	6	-F				30	.3	
	LEAR	30	0308	0308	0320	S23	W20	.470	17348	28.6	12	-F	3	C		39		
	PEKG	30	0310	0311	0314	S23	W25	.524	17348	28.3	4	-N		C	0311	17	.2	D
	PEKG	30	0311E	0311	0311D	S27	W17	.488	17348	28.9		-F		P	0311	34	.4	E
21	LEAR	30	0325	0326	0331	S21	W23	.483	17348	28.4	6	-N	3	C		48		
22	PEKG	30	0350	0356	0413	N14	W15	.381	17361	29.0	23	-N		C	0356	59	.6	E
23	PEKG	30	0410	0413	0415	N26	W07	.493	17357	29.6	5	-N		C	0413	17	.2	D
24	LEAR	30	0450	0450	0455	N14	W15	.381	17361	29.1	5	-N	3	C		28		
25	PEKG	30	0614	0615	0625	S09	W05	.139	17352	29.9	11	-F		C	0615	8	.1	D
26	PFKG	30	0615E	0615	0615D	S27	W19	.505	17348	28.8		-F		P	0615	13	.1	D
GRP91027		30	0652	0809 0853	0902	N14	W17	.403	17361	29.0	130	-N						
	LEAR	30	0652	0853	0902	N14	W17	.403	17361	29.0	130	-N	2	C		23		
	LEAR	30	0808	0809	0812	N14	W17	.403	17361	29.1	4	-F	*	C		27		
28	LEAR	30	0722	0734	0738	N18	W63	.909	17341	25.6	16	-F	3	C		12		
GRP91029		30	0724+2	0726+1	0729	S07	W06	.128	17352	29.9	5	-N						D
	LEAR	30	0724	0726	0729D	S08	W06	.138	17352	29.9	5D	-B	3	C		119		D
	PEKG	30	0726	0727	0729	S07	W06	.128	17352	29.9	3	-N		C	0727	17	.2	D
GRP91030		30	0819+0	0819+2	0830	S08	W05	.126	17352	30.0	11	-N				100	1.0	
	KANZ	30	0819	0819	0823	S08	W05	.126	17352	30.0	4	-F	1					
	LEAR	30	0819	0820	0830	S08	W06	.138	17352	29.9	11	-N	3	C		136		
	HTPR	30	0819	0821	0824	S07	W08	.157	17352	29.7	5	-B		C	0821	50	.5	
	HTPR	30	0821	0821	0833	S09	W02	.114	17352	30.2	12	-B		C	0821	20	.2	
GRP91031		30	0834+4	0834+5	0842	S21	W25	.506	17348	28.5	8	-F				35	.4	
	KANZ	30	0834	0834	0842	S21	W25	.506	17348	28.5	8	-F	1					
	LEAR	30	0834	0839	0850	S28	W24	.561	17348	28.6	16	-F	3	C		52		
	HTPR	30	083b	0839	0842	S20	W31	.571	17348	28.0	4	-F		C	0839	20	.2	
GRP91032		30	0858+2	0902+0	0918	S25	W25	.542	17348	28.5	20	-F				60	.7	
	KANZ	30	0858	0902	0918	S27	W23	.541	17348	28.6	20	-F	1					
	HTPR	30	0859	0902	0914	S24	W28	.565	17348	28.3	15	-N		C	0902	50	.6	
	HTPR	30	0859	0906	0928	S26	W22	.521	17348	28.7	29	-F		C	0906	40	.4	
	LEAR	30	0900	0902	0916	S25	W25	.542	17348	28.5	16	-F	3	C		77		
33	LEAR	30	1005	1006	1012	N13	W18	.404	17361	29.1	7	-F	2	C		61		
34	KANZ	30	1039	1047	1102	N13	W20	.428	17361	28.9	23	-F	2					

H - ALPHA S O L A R F L A R E S

DECEMBER 1980

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
35	HTPR	30	1211	1213	1218	S24	W25	.532	17348	28.6	7	-F		C	1213	100	1.1	E
36	KANZ	30	1216	1225	1240	N13	W20	.428	17361	29.0	24	-N	2					
37	HTPR	30	1225	1229	1231	S04	W10	.175	17352	29.8	6	-N		C	1229	40	.4	E
GRP91038		30	1300+0	1304+2	1332	S25	W23	.521	17348	28.8	32	1N						E
	HTPR	30	1300	1306	1333	S24	W23	.511	17348	28.8	33	1N		C	1306	250	2.7	E
	KANZ	30	1300	1304	1331	S27	W24	.551	17348	28.7	31	1N	3					
GRP91039		30	1406	1408+2	1514	N23	W10	.462	17350	29.8	68	-N						
	HTPR	30	1406	1408	1514	N23	W10	.462	17350	29.8	68	-N		C	1410	20	.2	
	HTPR	30	1406	1410	1514	N23	W10	.462	17350	29.8	68	-N		C				
40	HTPR	30	1443	1447	1453	S26	W25	.551	17348	28.7	10	-F		C	1447	20	.2	E
41	HTPR	30	1452	1453	1503	N08	E65	.911	17367	4.5	11	-F		C	1453	40	.9	E
GRP91042		30	2023+1	2025+0	2030	S24	W33	.620	17348	28.4	7	-F						H
	CULG	30	2023	2025	2030	S23	W34	.625	17348	28.3	7	-N		C	2025	140	1.8	H
	BIGB	30	2024	2025	2030	S25	W33	.626	17348	28.4	6	-F	2	C	2025	40	.5	
43	CULG	30	2040	2050U	2101D	S31	W31	.652	17348	28.5	21D	-F		P	2050	60	.8	
44	CULG	30	2045	2047	2100U	N10	W14	.324	17351	29.8	15D	-N		C	2047	50	.5	K
45	CULG	30	2053	2101U	2101U	S05	W07	.128	17352	30.3	8D	-F		P	2101	80	.8	
46	CULG	30	2123	2124	2129	S25	W34	.637	17348	28.3	6	-F		C	2124	70	.9	T
GRP91047		30	2204+8	2213+2	2224	S21	W33	.601	17348	28.4	20	-N				60	.8	F
	CULG	30	2204	2213	2224D	S21	W32	.589	17348	28.5	20D	-B	*	P	2213	170	2.0	TF
	BIGB	30	2211	2215	2228	S21	W33	.601	17348	28.4	17	-N	*	C	2215	60	.7	
	HOLL	30	2212	2215	2222	S21	W33	.601	17348	28.4	10	-N	*	C		56		
GRP91048		30	2208+3	2212+2	2232	N14	W24	.486	17361	29.1	24	-F				60	.7	
	CULG	30	2208	2213	2237U	N14	W25	.499	17361	29.0	29D	-N		C	2213	120	1.2	
	HOLL	30	2211	2214	2232	N12	W24	.470	17361	29.1	21	-F	3	C		55		
	BIGB	30	2211	2212	2231	N14	W24	.486	17361	29.1	20	-F	2	C	2212	40	.5	
49	CULG	30	2240	2242	2249	S25	W30	.594	17348	28.7	9	-F		C	2242	120	1.4	T
50	CULG	30	2256	2258	2315	N09	E45	.724	17364	3.3	19	-F		C	2258	60	.9	
51	CULG	30	2347	2348	2350	S23	W35	.636	17348	28.4	3	-F		C	2348	90	1.2	TH
52	CULG	30	2352	2403	0110U	S10	W13	.256	17352	30.0	78D	-F		C	2403	80	.8	
GRP91053		31	0038+7	0044+4	0100	S21	W35	.624	17348	28.4	22	-N						E
	CULG	31	0038	0044	0100	S21	W35	.624	17348	28.4	22	-B		C	0044	100	1.3	T
	PURP	31	0045	0048	0049D	S21	W35	.624	17348	28.4	4D	-N		P				E
54	CULG	31	0200	0202	0223	S21	W36	.635	17348	28.4	23	-N		C	0202	100	1.3	TKH
55	CULG	31	0217	0219	0230U	S10	W15	.284	17352	30.0	13D	-F		C	0219	90	.9	
56	CULG	31	0345E	0345E	0408D	S21	W36	.635	17348	28.5	23D	-N		P	0345	60	.8	TH
57	CULG	31	0349	0350	0356	S10	E14	.269	17360	1.2	7	-F		C	0350	40	.4	
58	CULG	31	0501E	0501E	0503D	S21	W37	.647	17348	28.4	2D	-N		P	0501	60	.8	T
GRP91059		31	0602	0603 0620	0628	N25	W22	.575	17357	29.6	26	1F						F
	LEAR	31	0602	0603	0702	N25	W22	.575	17357	29.6	60	-F	3	C		81		
	PURP	31	0609E	0609	0625	N25	W22	.575	17357	29.6	16D	1F		P				
	CULG	31	0619E	0620D	0628D	N26	W24	.602	17357	29.5	9D	1N		P	0620	300	3.6	F

H - ALPHA SOLAR FLARES

DECEMBER 1980

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP91060	31	0658+4	0704+1	0708	N14	W49	.782	17347	27.6	10	-N					D
YUNN	31	0658		0704D	N16	W49	.788	17347	27.6	6D	-N	P	0704	80	1.3	
PURP	31	0659	0705	0705D	N13	W48	.768	17347	27.7	6D	-N	P				D
LEAR	31	0702	0704	0708	N14	W52	.811	17347	27.4	6	-N	3 C		32		
61 CULG	31	0728	0731	0734	S10	E13	.255	17360	1.3	6	-F	C	0731	60	.6	
62 CULG	31	0734	0739	0745	N14	W50	.792	17347	27.6	11	-F	C	0739	40	.7	
63 CULG	31	0755	0758	0804D	S20	W39	.665	17348	28.4	9D	-N	P	0758	100	1.3	T
GRP91064	31	0816+0	0820+1	0837	N13	W28	.530	17361	29.2	21	-F					
KANZ	31	0816	0820	0832	N13	W29	.543	17361	29.2	16	-F	2				
LEAR	31	0816	0821	0841	N13	W28	.530	17361	29.2	25	-N	3 C		134		
GRP91065	31	0923+4	0929+2	0935	S21	W39	.670	17348	28.5	12	-N			90	1.2	E
KANZ	31	0923	0929	0936	S21	W39	.670	17348	28.5	13	-N	2				
HTPR	31	0926	0930	0934	S20	W40	.677	17348	28.4	8	-N	C	0930	70	.9	E
WEND	31	0927	0931	0936	S21	W39	.670	17348	28.5	9	-N	C	0931	50	.7	
LEAR	31	0927	0930	0935	S21	W39	.670	17348	28.5	8	-N	3 C		115		
YUNN	31	0929E		0935	S19	W40	.673	17348	28.4	6D	1N	P	0929	193	2.7	B
66 KANZ	31	1059	1103	1110	N13	W52	.809	17347	27.6	11	-F	2				
67 KANZ	31	1242	1246	1334	N13	W52	.809	17347	27.6	52	-F	2				
	31	1721	1738	NO FLARE PATROL												
68 HOLL	31	1921	1940	1958	N13	W37	.643	17361	29.0	37	-F	3 C		41		
	31	1923	1940	NO FLARE PATROL												
	31	2018	2034	NO FLARE PATROL												
69 CULG	31	2056	2116	2140U	N28	W32	.689	17357	29.5	44D	1F	C	2116	240	3.4	F
70 CULG	31	2136	2137	2139	N16	W58	.869	17347	27.5	3	-F	C	2137	40	.8	
GRP91071	31	2220+4	2226+1	2240	N27	W24	.613	17350	30.1	20	-N			100	1.2	
CULG	31	2220U	2227U	2242D	N27	W24	.613	17350	30.1	22D	-N	* P	2227	130	1.7	
HOLL	31	2224	2226	2238	N27	W24	.613	17350	30.1	14	-N	* C		67		

DAILY FLARE INDICES

(Includes all Flares)

DECEMBER 1980

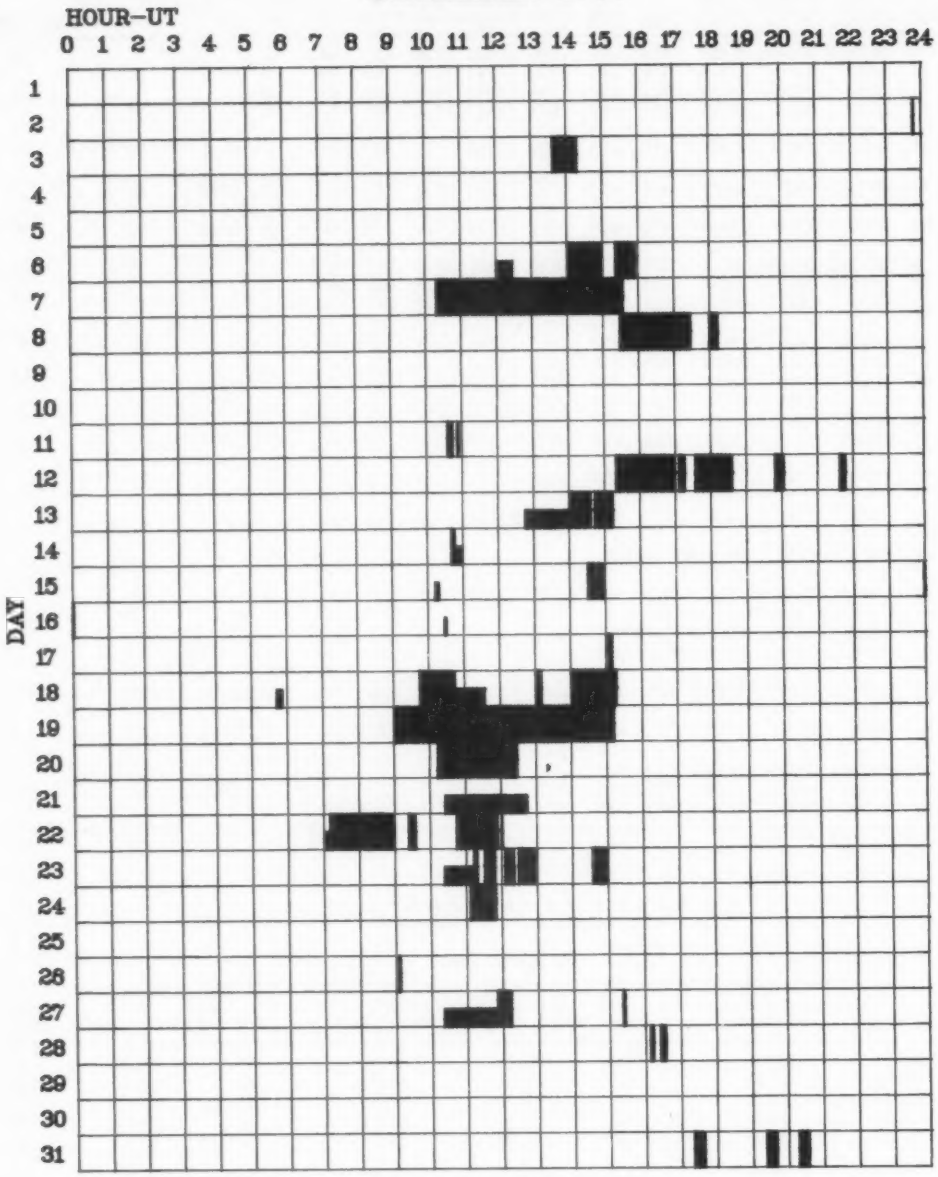
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	98.01	24.0	11	190.32	23.8	21	55.85	24.0
02	640.00	24.0	12	169.38	20.8	22	60.34	20.9
03	103.44	23.3	13	272.23	22.9	23	118.17	22.5
04	115.61	24.0	14	117.96	23.9	24	64.13	23.3
05	79.01	24.0	15	374.05	23.5	25	77.33	24.0
06	63.55	22.5	16	347.70	24.0	26	148.90	24.0
07	116.50	18.8	17	241.13	23.9	27	161.62	23.6
08	69.63	21.9	18	181.25	21.6	28	168.41	23.8
09	231.65	24.0	19	146.27	17.8	29	800.23	24.0
10	128.05	24.0	20	107.21	21.8	30	145.75	24.0
						31	83.44	23.2

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

DECEMBER 1980



Observatories included in total patrol:

Abastumani	Catania	Istanbul	Manila	Ramey
Athens	Culgoora	Kanzelhoehe	Mitaka	Tashkent
Big Bear	Haute Provence	Kharkov	Palehua	Voroshilov
Bucharest	Holloman	Learmonth	Peking	Wendelstein
		Lvov	Purple Mt.	Yunnan

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

H - ALPHA SOLAR FLARES

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91072	01	0114+6	0120+4	0134	N13	W40	.680	17361	29.1	20	-F			35	.5	
CULG	01	0114	0120	0138	N13	W40	.680	17361	29.1	24	-F	C	0120	40	.6	
LEAR	01	0120	0124	0129	N13	W41	.691	17361	29.0	9	-F	3 C		25		
73 CULG	01	0121	0123	0133	N30	W30	.691	17350	29.8	12	-F	C	0123	40	.6	
GRP91074	01	0237+3	0242+3	0249	N25	W28	.630	17350	30.0	12	-F			30	.4	D
LEAR	01	0237	0242	0248	N25	W27	.620	17350	30.1	11	-F	3 C		34		
PEKG	01	0240	0245	0250	N25	W29	.639	17350	29.9	10	-F	C	0245	34	.4	D
75 LEAR	01	0404	0405	0413	N26	W28	.639	17350	30.1	9	-F	3 C		33		
GRP91076	01	0726+4	0728 0742	0755	N13	W63	.903	17347	27.6	29	-F					
LEAR	01	0726	0728	0749	N13	W62	.896	17347	27.7	23	-F	3 C		19		
PURP	01	0730	0742	0800	N13	W65	.917	17347	27.4	30	1F	C				
77 LEAR	01	0812	0814	0822	N13	W63	.903	17347	27.6	10	-N	3 C		38		
78 ABST	01	0840	0843	0909	N24	W13	.497	17363	31.4	29	?F	P	0848	218	2.6	E
			IMP.1 NO : LEAR YUNN CATA													
79 ABST	01	0846E	0847	0901D	N16	W64	.914	17347	27.6	15D	-F	P	0847	87		D
GRP91080	01	0935+9	0937 0949	0954	N13	W62	.896	17347	27.7	19	-F					E
LEAR	01	0935	0937	0953	N13	W64	.910	17347	27.6	18	-F	3 C		40		
YUNN	01	0944	0949	0954	N14	W61	.889	17347	27.8	10	-N	C		48	.6	E
	01	1014	1448	NO FLARE PATROL												
	01	1151	1448	NO FLARE PATROL												
	01	1511	1539	NO FLARE PATROL												
	01	1541	1543	NO FLARE PATROL												
	01	1551	1553	NO FLARE PATROL												
	01	1559	1606	NO FLARE PATROL												
81 HOLL	01	1637	1641	1658	S05	W33	.544	17352	30.2	21	-F	2 C		26		
82 HOLL	01	1642	1643	1646	N13	W63	.903	17347	28.0	4	-F	2 C		30		
83 HOLL	01	1732	1732	1745	N12	W52	.807	17361	28.8	13	-F	3 C		25		
	01	1930	1940	NO FLARE PATROL												
84 HOLL	01	1949	1950	1955	N13	W52	.809	17361	28.9	6	-F	3 C		23		
	01	2112	2113	NO FLARE PATROL												
85 CULG	01	2305	2308	2316U	S05	W39	.629	17352	30.0	11D	-F	C	2308	100	1.3	
86 CULG	01	2308	2311	2320	N15	E16	.407	17364	3.2	12	-N	C	2311	60	.7	
87 CULG	02	0443	0443	0447	N17	W61	.895	17361	28.6	4	-N	C	0443	60	1.3	
'88 CULG	02	0449	0516	0600	N25	W20	.562	17363	31.7	71	-F	C	0516	150	1.8	
89 ABST	02	0825	0829	0843	N24	W45	.782	17350	30.0	18	-F	P	0829	79	1.3	D
	02	1049	1054	NO FLARE PATROL												
90 HTPR	02	1101	1103	1115	N26	W47	.809	17350	29.9	14	-F	C	1103	20	.3	
91 HTPR	02	1117	1128	1141	S06	W48	.742	17352	29.9	24	-F	C	1128	20	.3	
92 HTPR	02	1321	1323	1330	N26	W48	.817	17350	30.0	9	-F	C	1323	20	.3	
GRP91093	02	1815+0	1818+1	1840	S07	W51	.776	17352	29.9	25	-F			45	.7	
HOLL	02	1815	1818	1836	S06	W51	.776	17352	29.9	21	-F	3 C		26		
BIGB	02	1815	1819	1843	S08	W52	.787	17352	29.9	28	-F	2 C	1819	60	1.0	

H - ALPHA S O L A R F L A R E S

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91094	02	2016+1	2017+1	2028	S07	W52	.787	17352	29.9	12	-F				50	.8	
BIGB	02	2016	2018	2029	S08	W52	.787	17352	29.9	13	-F	2	C	2018	60	1.0	
HOLL	02	2017	2017	2027	S06	W52	.787	17352	29.9	10	-F	3	C		35		
	02	2152	2205	NO FLARE PATROL													
95 LEAR	03	0257E	0257U	0315	S06	W51	.776	17352	30.3	18D	-N	3	C		103		
96 PEKG	03	0333	0338	0338D	N09	W57	.849	17351	29.9	5D	-F		P	0338	34	.7	D
GRP91097	03	0840	0900+5	1001	S31	E26	.602	17369	5.3	81	-F				150	1.9	
CATA	03	0840	0900	1015	S31	E25	.594	17369	5.2	95	1F	2	C	0900	197	2.5	
ATHN	03	0901E	0905	0908D	S27	E26	.565	17369	5.3	7D	-N	2	V	0905	111	1.4	
LEAR	03	0925E	0925U	0946	S32	E28	.629	17369	5.5	21D	-F	2	C		66		
98 KANZ	03	1025	1028	1036	N12	W75	.971	17361	28.8	11	-F	2					
GRP91099	03	1250	1300 1316	1435	S25	W09	.397	17366	2.9	105	-F						E
HTPR	03	1250	1300	1400	S25	W06	.383	17366	3.1	70	-F		C	1300	30	.3	E
HTPR	03	1257	1316	1435	S25	W12	.417	17366	2.6	98	-F		C	1316	40	.4	E
100 HTPR	03	1315	1316	1324	S15	E72	.950	17379	9.0	9	-F		C	1316	20		
101 RAMY	03	1321	1327	1353	N22	W38	.706	17363	31.7	32	-F	3	C		36		
GRP91102	03	1710+2	1710+2	1727	N22	W39	.716	17363	31.8	17	-F				20	.3	
HOLL	03	1710	1710	1726	N23	W39	.722	17363	31.8	16	-F	3	C		19		
RAMY	03	1712	1712	1728	N21	W40	.720	17363	31.7	16	-F	3	C		22		
103 RAMY	03	1734	1734	1743	S15	E76	.969	17379	9.4	9	-F	3	C				
104 HOLL	03	1754	1813	1817	N07	W24	.439	17374	1.9	23	-F	3	C		28		
105 HOLL	03	1823	1827	1833	N07	W24	.439	17374	2.0	10	-F	3	C		23		
106 BIGB	03	1834	1839	1918	N08	W69	.938	17351	29.6	44	-F	2	C	1839	70		G
GRP91107	03	2200+1	2202+0	2211	S06	W67	.919	17352	29.9	11	1N				130		
CULG	03	2200	2202	2211	S05	W67	.919	17352	29.9	11	1N		C	2202	180	4.5	
BIGB	03	2200	2202	2219	S07	W69	.932	17352	29.7	19	-N	2	C	2202	80		
HOLL	03	2201	2202	2210	S06	W67	.919	17352	29.9	9	1N	3	C		126		
108 HOLL	03	2227	2232	2241	N14	W78	.982	17361	29.1	14	-F	3	C				
109 CULG	03	2252U	2253U	2335U	N09	W26	.480	17374	2.0	43D	-N		C	2253	100	1.2	T
GRP91110	03	2258+0	2259+3	2330	S05	W67	.919	17352	29.9	32	-N				80		
HOLL	03	2258	2259	2324	S05	W67	.919	17352	29.9	26	-F	3	C		68		
CULG	03	2258	2300	2335U	S04	W67	.919	17352	29.9	37D	1N		C	2300	100	2.5	
BIGB	03	2258	2302	2330	S06	W70	.938	17352	29.7	32	-N	2	C	2302	60		
111 CULG	04	0000	0006	0016	S03	W65	.905	17352	30.1	16	-F		C	0006	40	1.0	
112 CULG	04	0036	0038	0055	N20	W43	.746	17363	31.8	19	-N		C	0038	100	1.5	
113 CULG	04	0101	0110	0131	N15	W78	.983	17361	29.2	30	-F		C	0110	50		
114 CULG	04	0141	0146	0157	N09	W27	.494	17374	2.0	16	-N		C	0146	90	1.0	T
115 CULG	04	0729	0731	0736	S19	E64	.901	17379	9.1	7	-N		C	0731	30		
116 KANZ	04	0919	0923	0923D	N13	W86	.999	17361	28.9	4D	-N	2					
117 RAMY	04	1501	1504	1513	S14	E61	.875	17379	9.2	12	-F	3	C		24		
118 RAMY	04	1601	1602	1606	N08	W37	.624	17374	1.9	5	-N	3	C		59		
119 RAMY	04	1651	1657	1709	N11	W86	.998	17361	29.3	18	-N	3	C				

H - ALPHA SOLAR FLARES

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP91120	04	2037+9	2046 2100	2128	S05	W81	.987	17352	29.8	51	-N						
BIGB	04	2037	2046	2138	S07	W80	.984	17352	29.9	61	-B	2	C	2046	70		
CULG	04	2046	2100	2118	S04	W83	.992	17352	29.6	32	1F		C	2100	100		
GRP91121	04	2341+3	2346+3	0018D	N21	W58	.881	17363	31.6	37	1N				110	2.3	
CULG	04	2341	2346	0010U	N23	W58	.886	17363	31.6	29D	1N		C	2346	140	2.8	
BIGB	04	2344	2349	0018D	N20	W59	.886	17363	31.6	34D	-B	3	P	2349	90	1.8	
122 CULG	04	2347	2349	0005	S12	E25	.442	17375	6.9	18	-F		C	2349	160	1.8	
123 CULG	05	0019	0019	0030	N22	W57	.877	17363	31.7	11	-F		C	0019	90	1.8	
124 CULG	05	0105	0109 IMP.1	0118 NO : MITK PEKG	N18	E61	.897		9.6	13	?F		C	0109	100	2.3	
GRP91125	05	0222+2	0225+2	0232	S15	E53	.803	17379	9.1	10	-F				100	1.7	J
CULG	05	0222	0225	0238	S15	E53	.803	17379	9.1	16	-N		C	0225	120	2.0	F
LEAR	05	0223	0227	0232D	S15	E55	.823	17379	9.2	9D	-F	3	C		66		
VORO	05	0224	0226	0231	S16	E53	.804	17379	9.1	7	-F		C	0226	108	1.8	EJ
126 CULG	05	0310	0314	0324U	N08	W44	.712	17374	1.8	14D	-F		C	0314	30	.4	
GRP91127	05	0333+0	0335+1	0347	N08	W43	.700	17374	1.9	14	-F				70	1.0	DJ
CULG	05	0333	0335U	0350U	N09	W42	.691	17374	2.0	17D	-F		P	0335	80	1.1	
VORO	05	0333	0336	0343	N07	W44	.709	17374	1.8	10	-N		C	0336	72	1.0	DJ
128 LEAR	05	0512	0513	0516	S16	E54	.814	17379	9.3	4	-N	3	C		19		
129 LEAR	05	0632	0637	0645	N07	W43	.697	17374	2.0	13	-N	3	C		23		
130 ABST	05	0645E	0649	0655D	S14	E51	.781	17379	9.1	10D	-F		P	0649	87	1.4	DJ
131 LEAR	05	0722	0723	0728	N07	W44	.709	17374	2.0	6	-N	3	C		20		
132 ABST	05	0807E	0810	0823D	N05	W45	.716	17374	2.0	16D	-F		P	0810	70	1.0	DJ
133 LEAR	05	0811	0813	0826	S14	E50	.771	17379	9.1	15	-F	3	C		33		
GRP91134	05	1117	1118	1128	S16	E48	.752	17379	9.1	11	-B				30	.5	
HTPR	05	1117	1118	1131	S16	E49	.763	17379	9.1	14	-B		C	1118	30	.5	
CATA	05	1120E	1120	1125	S16	E47	.741	17379	9.0	5D	-F	1	P	1120	28	.4	
135 RAMY	05	1157E	1157U	1302	N05	W48	.751	17374	1.9	65D	-F	3	C		64		
GRP91136	05	1355+3	1359+1	1411	S15	E47	.739	17379	9.1	16	-N				45	.7	
HTPR	05	1355	1359	1410	S16	E48	.752	17379	9.2	15	-B		C	1359	40	.6	
RAMY	05	1358	1400	1411	S14	E47	.738	17379	9.1	13	-N	3	C		48		
137 RAMY	05	1616	1622	1632	S14	E45	.715	17379	9.1	16	-F	3	C		40		
138 BIGB	05	2022	2022	2056	S16	E47	.741	17379	9.4	34	-N	3	C	2022	100	1.5	
139 BIGB	05	2138	2141	2253	N19	W72	.962	17363	31.5	75	-B	3	C	2141	50		
140 VORO	06	0157	0158	0200	N08	W56	.839	17374	1.9	3	-F		C	0158	54	1.0	DJ
141 VORO	06	0158	0200	0210	N35	E34	.767		8.6	12	-F		C	0200	90	1.4	E
142 LEAR	06	0213	0215	0226	S17	E40	.662	17379	9.1	13	-F	3	C		24		
143 LEAR	06	0242	0242	0248	N06	W55	.827	17374	2.0	6	-F	3	C		17		
144 LEAR	06	0357	0357	0401	N08	E82	.992	17384	12.3	4	-F	3	C				
145 LEAR	06	0459	0501	0511	N08	W58	.857	17374	1.9	12	-F	3	C		19		
146 LEAR	06	0553	0555	0617	S17	E39	.650	17379	9.2	24	-B	3	C		74		D
147 LEAR	06	0726	0726	0741	N07	W59	.865	17374	1.9	15	-N	3	C		17		

H - ALPHA S O L A R F L A R E S

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91148	06	0731+0	0733+1	0754	S15	E37	.618	17379	9.1	23	-F			50	.6	
LEAR	06	0731	0733	0755	S16	E38	.634	17379	9.2	24	-N	3 C		34		
CULG	06	0731	0734	0752	S15	E37	.618	17379	9.1	21	-F	C	0734	70	.9	
149 LEAR	06	0844	0845	0847	N05	E75	.968	17384	12.0	3	-F	3 C		13		
GRP91150	06	1203	1205	1242	S15	E35	.592	17379	9.1	39	-N					
RAMY	06	1203	1205	1237	S15	E34	.579	17379	9.1	34	-N	3 C		118		D
HTPR	06	1219E		1247	S16	E36	.609	17379	9.2	28D	-N	C	1221	80	1.0	E
	06	1401	1537	NO FLARE PATROL												
151 RAMY	06	1653	1655	1703	S14	E33	.562	17379	9.2	10	-F	3 C		73		
152 BIGB	06	2117	2121	2224	S15	E33	.566	17379	9.4	67	-F	2 C	2121	140	1.7	
153 VORO	07	0155	0158	0203	S14	E03	.186	17375	7.3	8	-N	C	0158	45	.5	DJ
154 YUNN	07	0215E	0215	0232	N08	E90	1.000	17389	13.8	17D	-N	P		48		A
GRP91155	07	0231+1	0233+1	0238	S13	E03	.170	17375	7.3	7	-F			50	.5	DJ
CULG	07	0231	0233	0239	S13	E04	.176	17375	7.4	8	-F	C	0233	60	.6	
VORO	07	0232	0234	0236	S14	E03	.186	17375	7.3	4	-N	C	0234	54	.6	DJ
156 VORO	07	0238	0245	0255	N07	E80	.986	17384	13.1	17	-N	C	0245	45		DJK
CRP91157	07	0243+8	0245 0252	0309	S14	E04	.191	17375	7.4	26	-F					E
CULG	07	0243	0245	0319	S13	E04	.176	17375	7.4	36	-F	C	0245	40	.4	
VORO	07	0251	0252	0258	S15	E04	.208	17375	7.4	7	-F	C	0252	54	.6	E
GRP91158	07	0355>9	0409+2	0430	S12	E01	.146	17375	7.2	35	-N			80	.8	
CULG	07	0355	0409	0435	S11	E01	.128	17375	7.2	40	1N	C	0409	240	2.4	
PEKG	07	0406	0411	0425	S12	E01	.146	17375	7.2	19	-N	C	0411	55	.6	EF
LEAR	07	0411E	0411U	0420D	S14	E01	.180	17375	7.2	9D	-F	2 C		78		
159 PEKG	07	0545	0550	0610	S05	E19	.325	17386	8.7	25	-F	C	0550	29	.3	E
160 YUNN	07	1002D	1005	1007	S13	W03	.170	17375	7.2	5D	-N	P		80	.8	
161 YUNN	07	1005	1007	1008	S07	E16	.280	17386	8.6	3	-F	C		32	.3	
GRP91162	07	1013	1015+6	1050	S06	E16	.277	17386	8.6	37	-N					E
YUNN	07	1013	1015	1020	S07	E16	.280	17386	8.6	7	-N	C		48	.5	
HTPR	07	1015E	1021	1120	S06	E14	.244	17386	8.5	65D	-N	C	1021	140	1.4	ET
KANZ	07	1031E		1050D	S06	E16	.277	17386	8.6	19D	-F	1				
163 HTPR	07	1050	1102	1115	S16	W02	.216	17375	7.3	25	-F	C	1102	20	.2	
164 HTPR	07	1200	1202	1205	N06	E80	.986	17389	13.5	5	-F	C	1202	30		
GRP91165	07	1242+1	1245+0 1305	1340D	N10	W55	.834	17364	3.4	58	-N			40	.7	E
RAMY	07	1242	1245	1340	N09	W54	.822	17364	3.5	58	-N	3 C		53		
HTPR	07	1243	1245	1307	N10	W58	.860	17364	3.2	24	-F	C	1245	30	.6	
HTPR	07	1245	1305	1435	N13	W55	.840	17364	3.4	110	-N	C	1305	50	.9	E
166 HTPR	07	1400	1405	1412	S16	W03	.219	17375	7.4	12	-N	C	1405	30	.3	
	07	1531	1608	NO FLARE PATROL												
GRP91167	07	1652+1	1658+2	1713	S13	W05	.183	17375	7.3	21	-N			50	.5	
RAMY	07	1652	1658	1712	S14	W04	.191	17375	7.4	20	-N	3 C		50		
BIGB	07	1653	1700	1713	S12	W06	.177	17375	7.3	20	-N	2 C	1700	60	.6	
168 CULG	07	2027E	2030	2036	S12	W08	.199	17375	7.3	9D	-F	P	2030	160	1.6	T
169 CULG	07	2208	2210	2215	S12	W08	.199	17375	7.3	7	-N	C	2210	60	.6	T
170 CULG	07	2300	2320	2330	S13	W10	.235	17375	7.2	30	-F	C	2320	120	1.2	T

H - ALPHA SOLAR FLARES

JANUARY 1981

	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Area Appar (Disk)	Area Corr (Sq Deg)	Remarks
171	CULG	08	0043U	0053	0104	S12	W10	.222	17375	7.3	21D	-F	C	0053	100	1.0	
172	VORO	08	0052	0053	0056	S20	E16	.382	17379	9.2	4	-F	C	0053	36	.4	E
173	VORO	08	0104	0105	0111	S14	W11	.257	17375	7.2	7	-N	C	0105	72	.8	E
GRP91174		08	0200>9	0204 0225	0233	S13	W10	.233	17375	7.3	33	-F					EJK
	VORO	08	0200	0204	0233	S14	W09	.234	17375	7.4	33	-F	C	0204	63	.7	EJK
	CULG	08	0219	0225	0231D	S12	W11	.236	17375	7.3	12D	-F	P	0225	70	.7	
GRP91175		08	0210+0	0212+2	0227	N06	E78	.980	17389	13.9	17	-N					EK
	VORO	08	0210	0214	0232	N07	E80	.986	17389	14.1	22	1N	C	0214	72		EK
	LEAR	08	0210	0212	0222	N05	E77	.976	17389	13.9	12	-F	3 C				
176	CULG	08	0213	0226U	0250U	N20	E41	.729	17388	11.2	37D	?F	C	0226	300	4.5	F
				IMP.1 NO : VORO LEAR PALE MITK PEKG													
177	CULG	08	0228U	0243	0309D	S06	E07	.127	17386	8.6	41D	-N	P	0243	110	1.1	
178	VORO	08	0231	0233	0235	S20	E11	.333	17379	8.9	4	-N	C	0233	72	.8	DJ
GRP91179		08	0557E	0611+1	0622D	S19	E13	.339	17379	9.2	25	-F			100	1.1	EGJK
	ABST	08	0557E	0612	0622D	S19	E14	.349	17379	9.3	25D	-F	P	0612	131	1.4	EGJ
	CULG	08	0603U	0611	0619D	S19	E13	.339	17379	9.2	16D	-N	P	0611	70	.8	K
GRP91180		08	0613+5	0617+1	0626	S15	W12	.280	17375	7.4	13	-N					FJ
	ABST	08	0613	0617	0622D	S16	W12	.292	17375	7.4	9D	1F	P	0617	192	2.1	FJ
	LEAR	08	0618	0618	0626	S14	W12	.269	17375	7.4	8	-N	3 C		34		
181	CULG	08	0618E	0619U	0650D	S32	W44	.765	17369	5.0	32D	-F	P	0619	40	.6	
GRP91182		08	0629+2	0633+1	0642	S06	E05	.095	17386	8.6	13	-F			120	1.2	E
	CULG	08	0629E	0633	0641	S06	E05	.095	17386	8.6	12D	-F	P	0633	110	1.1	
	ABST	08	0631	0634	0643D	S07	E05	.103	17386	8.6	12D	-F	P	0634	131	1.4	E
GRP91183		08	0701+1	0705+1	0718	S14	W12	.269	17375	7.4	17	-F			150	1.6	DJ
	ABST	08	0701	0706	0715	S15	W12	.280	17375	7.4	14	-N	P	0706	105	1.1	DJ
	CULG	08	0702	0705	0720	S13	W12	.259	17375	7.4	18	-F	C	0705	190	1.9	
184	ABST	08	0749	0751	0758D	S15	W12	.280	17375	7.4	9D	-F	P	0751	87	.9	DJ
185	HTPR	08	0912	0915	0930	S16	W12	.292	17375	7.5	18	-F	C	0915	20	.2	
186	HTPR	08	0942	0944	0950	S13	W17	.328	17375	7.1	8	-F	C	0944	10	.1	
GRP91187		08	1053+0	1059+6	1120	S13	W15	.300	17375	7.3	27	-F					E
	HTPR	08	1053	1059	1123	S13	W17	.328	17375	7.2	30	-F	C	1059	20	.2	E
	KANZ	08	1053	1105	1117	S13	W14	.286	17375	7.4	24	-F	2				
188	KANZ	08	1214		1221D	N07	E58	.856	17384	12.9	7D	-F	2				
GRP91189		08	1222+2	1229+1	1308	N08	E60	.875	17384	13.0	46	1N			170	3.5	EHKU
	LVOV	08	1222	1229	1255	N10	E60	.877	17384	13.0	33	1N	C	1229	200	3.9	E
	HTPR	08	1224	1230	1320	N07	E60	.873	17384	13.0	56	1N	C	1230	150	3.0	EK
	KANZ	08	1231E		1246D	N08	E57	.849	17384	12.8	15D	1N	2				UH
		08	1605	1647	NO FLARE PATROL												
		08	1815	1833	NO FLARE PATROL												
		08	1840	2002	NO FLARE PATROL												
		08	2008	2011	NO FLARE PATROL												
190	CULG	08	2051U	2104	2124U	S13	W23	.415	17375	7.1	33D	-F	C	2104	60	.6	KT
		08	2127	2131	NO FLARE PATROL												
191	CULG	08	2137	2146	2153	N07	E46	.733	17384	12.4	16	-F	C	2146	40	.6	
192	CULG	08	2139	2157U	2220U	S13	W22	.400	17375	7.3	41D	-F	C	2157	80	.9	T

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91193	08	2248>9	2326+4	2343	S13	W21	.386	17375	7.4	55	-N						K
CULG	08	2248	2330	2350U	S13	W22	.400	17375	7.3	62D	-N		C	2330	150	1.7	KT
LEAR	08	2326	2326	2336	S14	W21	.392	17375	7.4	10	-N	3	C		22		
GRP91194	09	0121+1	0123+3	0144	S06	W06	.110	17386	8.6	23	-F				70	.7	EH
CULG	09	0121	0126	0200	S06	W06	.110	17386	8.6	39	-F		C	0126	140	1.4	
VORO	09	0121	0123	0142	S03	W08	.140	17386	8.5	21	-F		C	0123	72	.7	EH
LEAR	09	0122	0124	0144	S07	W06	.117	17386	8.6	22	-F	3	C		52		
195 VORO	09	0126	0132	0156	S12	W24	.424	17375	7.3	30	-F		C	0132	54	.6	EK
GRP91196	09	0234+0	0235	0250	S12	W25	.439	17375	7.2	16	-F						EK
VORO	09	0234		0248D	S12	W26	.453	17375	7.2	14D	-N		P	0247	45	.5	EK
LEAR	09	0234	0235	0250	S12	W25	.439	17375	7.2	16	-F	3	C		32		
GRP91197	09	0234+1	0238+1	0255	N04	E62	.887	17389	13.8	21	-F				70	1.5	
LEAR	09	0234	0239	0302	N04	E63	.894	17389	13.8	28	-F	3	C		55		
CULG	09	0235	0238	0247	N05	E61	.880	17389	13.7	12	-F		C	0238	80	1.6	
GRP91198	09	0308+2	0310+2	0350	S15	W21	.398	17375	7.6	42	1B				240	2.6	UV
PEKG	09	0308	0312	0319	S15	W21	.398	17375	7.6	11	1B		C	0312	294	3.3	E
CULG	09	0310	0311	0430U	S15	W21	.398	17375	7.6	80D	1B		C	0311	300	3.3	VTUF
MITK	09	0310	0311	0412	S16	W21	.405	17375	7.6	62	1N		C	0311	240	2.7	
LEAR	09	0310	0310	0327	S16	W21	.405	17375	7.6	17	-B	3	C		151		D
199 CULG	09	0327	0329	0332	N09	E65	.914	17389	14.0	5	-F		C	0329	30	.7	
200 CULG	09	0455E	0457	0519	S07	E61	.873	17393	13.8	24D	-F		P	0457	80	1.8	
201 YUNN	09	0515	0520	0525	S12	W28	.483	17375	7.1	10	-F		C		48	.6	
GRP91202	09	0600>9	0625	0633D	S13	W27	.472	17375	7.2	33	-F				70	.8	DJ
ABST	09	0600E	0625	0633D	S13	W26	.458	17375	7.3	33D	-F		P	0625	79	.9	DJ
YUNN	09	0615	0621	0621D	S14	W28	.491	17375	7.2	6D	-F		P		64	.8	
203 ABST	09	0830E	0835	0841D	N13	E66	.925	17391	14.3	11D	-F		P	0835	70		DJ
204 HTPR	09	0914	0916	0922	S07	W10	.181	17386	8.6	8	-F		C	0916	20	.2	E
GRP91205	09	0949+3	0951+3	1013	S15	W21	.398	17375	7.8	24	-N						E
HTPR	09	0949	0951	0954	S14	W19	.363	17375	8.0	5	-F		C	0951	20	.2	
LEAR	09	0952	0954	1013	S16	W25	.460	17375	7.5	21	-N	3	C		102		
HTPR	09	0953		1005D	S14	W16	.321	17375	8.2	12D	-B		C	0953	70	.7	E
206 LVOV	09	1030E	1030	1132	S07	W28	.470	17375	7.3	62	?N		C	1030	300	3.6	BE
			IMP.1 NO : MONT CATA														
207 CULG	09	2101	2111	2137	N07	E51	.789	17389	13.7	36	-N		C	2111	30	.5	
GRP91208	09	2106>9	2128 2139+1	2226	S20	W46	.738	17370	6.4	80	1N						FS
CULG	09	2106	2128	2228U	S20	W43	.705	17370	6.7	82D	1N		C	2128	190	2.9	SF
BIGB	09	2119	2139	2224	S23	W44	.726	17370	6.6	65	1F	2	C	2139	240	3.4	
BIGB	09	2136	2140	2211	S18	W55	.825	17370	5.8	35	-N	2	C	2140	50	.9	
GRP91209	10	0023+3	0032+3	0055	N09	E38	.644	17384	12.9	32	-N						E
CULG	10	0023	0033	0110	N11	E38	.652	17384	12.9	47	1N		C	0033	170	2.2	
LEAR	10	0025	0033	0049	N08	E38	.640	17384	12.9	24	-N	3	C		158		
MITK	10	0026	0032	0055	N09	E39	.656	17384	12.9	29	-N		C	0032			E
MANI	10	0030E	0035U	0048D	N10	E32	.571	17384	12.4	18D	-F	1	V		15	.2	
GRP91210	10	0230	0231	0253	S13	W37	.610	17375	7.3	23	-N						E
LEAR	10	0230	0231	0250	S14	W36	.600	17375	7.4	20	-N	3	C		37		
PEKG	10	0248E	0248	0255	S12	W38	.621	17375	7.3	7D	-F		P	0255	34	.4	E
GRP91211	10	0240+3	0246+2	0311	N06	E48	.754	17389	13.7	31	-F				60	.9	E
CULG	10	0240	0247	0318	N08	E49	.770	17389	13.8	38	-F		C	0247	60	.9	
LEAR	10	0241	0248	0311	N06	E48	.754	17389	13.7	30	-F	3	C		62		
PURP	10	0243	0246	0247D	N05	E49	.763	17389	13.8	4D	-N		C				E
YUNN	10	0250E		0251	N06	E46	.732	17389	13.6	1D	-N		P		80	1.2	

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212 CULG	10	0301	0305	0319	S11	E48	.744	17390	13.7	18	-F	C	0305	60	1.0	G
GRP91213	10	0456+3	0458+4	0524	N07	E46	.734	17389	13.7	28	-N			120	1.8	
CULG	10	0456	0502	0540	N08	E47	.748	17389	13.7	44	1N	C	0502	150	2.3	F
PEKG	10	0457	0458	0513	N07	E46	.734	17389	13.7	16	-B	C	0501	63	1.0	EF
MITK	10	0459	0502	0517	N07	E47	.745	17389	13.7	18	-N	C	0502			E
LEAR	10	0501E	0501U	0530	N05	E46	.729	17389	13.7	29D	-N 3	C		117		
214 CULG	10	0548	0549	0557	S11	E47	.732	17390	13.8	9	-N	C	0549	60	1.0	G
215 KHAR	10	0920E		0940D	N03	E44	.701	17389	13.7	20D	-F	P	0925	70	1.1	
GRP91216	10	0946+3	0949+1 0957	1006	N03	E44	.701	17389	13.7	20	-F			130	1.8	O
KANZ	10	0946	0950	1005	N04	E44	.703	17389	13.7	19	-N 2					
LEAR	10	0949	0949	1006	N03	E44	.701	17389	13.7	17	-F 3	C		103		
KHAR	10	0955E	0957	100ED	N03	E44	.701	17389	13.7	13D	1F	P	0955	160	2.2	O
217 KANZ	10	1112	1115	1136	S07	E46	.718	17393	13.9	24	-F 2					
GRP91218	10	1254+4	1256+5	1305	S16	W41	.669	17375	7.5	11	-N			120	1.6	D
KANZ	10	1254	1257	1305	S16	W41	.669	17375	7.5	11	-N 2					
RAMY	10	1254	1256	1307	S17	W41	.672	17375	7.5	13	-B 3	C		89		D
LVOV	10	1258	1301	1305	S11	W36	.592	17375	7.8	7	-N	C	1301	150	1.8	D
	10	1359	1430	NO FLARE PATROL												
219 RAMY	10	1441	1443	1453	S17	W42	.684	17375	7.5	12	-N 3	C		37		
220 RAMY	10	1503	1506	1516	N06	E25	.452	17384	12.5	13	-F 3	C		20		
221 RAMY	10	1527	1528	1551	S12	W47	.733	17375	7.1	24	-B 3	C		50		
GRP91222	10	2055+1	2057+0	2120	S11	W49	.755	17375	7.2	25	-N			100	1.5	
BIGB	10	2055	2057	2120	S13	W50	.768	17375	7.1	25	-N 2	C	2057	120	1.9	
CULG	10	2056	2057	2109U	S10	W49	.754	17375	7.2	13D	-N	C	2057	80	1.2	
GRP91223	10	2230+1	2234+2	2259	N07	E20	.388	17384	12.4	29	-F			60	.7	
CULG	10	2230	2236	2254	N07	E20	.388	17384	12.4	24	-F	C	2236	40	.4	
BIGB	10	2231	2234	2304	N07	E20	.388	17384	12.4	33	-F 2	C	2231	90	1.0	
224 CULG	10	2234	2242	2301	N19	W17	.477	17387	9.7	27	-F	C	2242	30	.3	
225 CULG	10	2337	2346	0017U	N08	E45	.725	17391	14.4	40D	-F	C	2346	80	1.1	F
226 CULG	11	0001	0008	0053	S12	W52	.788	17375	7.1	52	?F	C	0008	150	2.4	K
			IMP.1 NO : LEAR PALE VORO MITK													
227 VORO	11	0043	0048	0057	N18	W21	.505	17387	9.5	14	-F	C	0048	54	.6	EJ
GRP91228	11	0106+7	0113+4	0126	S13	W51	.778	17375	7.2	20	1N			180	2.9	EJK
CULG	11	0106	0114	0133	S12	W52	.788	17375	7.1	27	1N	C	0114	180	2.9	F
LEAR	11	0107	0114	0131	S14	W49	.758	17375	7.4	24	1N 3	C		175		
MITK	11	0112	0114	0124	S16	W48	.750	17375	7.5	12	-N	C	0114			E
PURP	11	0112	0113	0124	S12	W51	.777	17375	7.2	12	1N	C				
VORO	11	0113	0117	0120	S12	W53	.798	17375	7.1	7	-N	C	0117	63	.9	EJK
GRP91229	11	0210>9	0225+1	0235	S12	W52	.788	17375	7.2	25	-N			100	1.6	
LEAR	11	0210	0225	0234	S13	W52	.789	17375	7.2	24	-N 3	C		99		
CULG	11	0222	0226	0235	S12	W53	.819	17375	7.1	13	-N	C	0226	100	1.6	
GRP91230	11	0227>9	0253 0308	0318D	N24	E44	.780	17392	14.4	51	?N					IJKS
CULG	11	0227	0308U	0430U	N25	E49	.827	17392	14.8	123D	?F	C	0308	380	5.7	SFI
			IMP.2 IMP.S													
VORO	11	0248	0253	0318	N23	E40	.738	17392	14.1	30	-N	C	0253	45	.7	EJK
231 VORO	11	0233	0248	0259	N03	E34	.570	17389	13.7	26	-N	C	0248	81	1.0	DK
232 CULG	11	0310	0327	0411	N10	E21	.426	17384	12.7	61	-F	C	0327	60	.7	

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233	CULG	11	0604	0612	0638	S16	W29	.513	17379	9.1	34	-F		C	0612	120	1.4	SF
GRP91234		11	0605+4	0609 0612+2	0624	S12	W47	.733	17375	7.7	19	-F						ES
	CULG	11	0605	0614	0641	S12	W54	.809	17375	7.2	36	1F		C	0614	180	2.5	S
	LEAR	11	0609	0609	0618	S14	W43	.689	17375	8.0	9	-F	3	C		29		
	MITK	11	0610	0613	0624D	S12	W45	.709	17375	7.9	14D	-N		C	0613			E
	LEAR	11	0612	0612	0622	S14	W51	.779	17375	7.4	10	-F	3	C		24		
GRP91235		11	0957+1	1002+1	1019	S12	W57	.838	17375	7.1	22	-F						
	KANZ	11	0957	1003	1019	S13	W57	.838	17375	7.1	22	-N	2					
	LEAR	11	0958	1002	1010D	S12	W57	.838	17375	7.1	12D	-F	3	C		54		
236	KANZ	11	1007	1007	1023	S14	E31	.532	17400	13.7	16	-F	3					
237	KANZ	11	1031	1036	1056	S14	W55	.820	17375	7.3	25	-N	3					
		11	1709	1722	NO FLARE PATROL													
238	RAMY	11	1800	1802	1813	N05	E10	.234	17384	12.5	13	-F	3	C		45		
239	RAMY	11	1955	1956	2009	S12	W63	.889	17375	7.1	14	-F	3	C		30		
		11	2127	2132	NO FLARE PATROL													
240	CULG	11	2133	2143	2300U	N08	E30	.534	17389	14.1	87D	2N		C	2143	740	8.9	FI
241	CULG	11	2218	2221	2231	S25	E54	.827	17394	16.0	13	-F		C	2221	40	.7	
242	CULG	12	0012	0013	0023	S23	E52	.804	17394	15.9	11	-F		C	0013	20	.4	
243	CULG	12	0203	0215 IMP.1	0231 NO : MITK	S10 LEAR	W70 PURP	.937	17375	6.8	28	?F		C	0215	90		T
244	CULG	12	0451	0455	0508	N05	E21	.389	17389	13.8	17	-F		C	0455	40	.4	T
GRP91245		12	0519+1	0520+2	0536	N08	E20	.397	17389	13.7	17	-N				120	1.3	
	LEAR	12	0519	0522	0536	N05	E21	.389	17389	13.8	17	-N	3	C		140		
	CULG	12	0519	0521	0539	N08	E20	.397	17389	13.7	20	-N		C	0521	130	1.4	T
	YUNN	12	0520	0520	0528	N08	E19	.384	17389	13.6	8	-N		C		96	1.1	
GRP91246		12	0734+3	0738+0	0752	S18	E32	.562	17401	14.7	18	-N						
	CULG	12	0734	0738	0801	S18	E32	.562	17401	14.7	27	-B		C	0738	80	1.0	
	LEAR	12	0737	0738	0742	S19	E32	.567	17401	14.7	5	-F	3	C		30		
GRP91247		12	0914+1	0917+5 0929	0943	S18	E29	.523	17401	14.6	29	-N						EL
	KHAR	12	0914E	0917	0945D	S25	E23	.505	17401	14.1	31D	1F		P	0914	180	2.1	E
	KANZ	12	0914	0919	0945	S17	E28	.504	17401	14.5	31	-N	*					L
	LEAR	12	0915	0922	0941	S19	E29	.529	17401	14.6	26	-N	*	C		81		
	YUNN	12	0925	0929	0934	S17	E29	.517	17401	14.6	9	1N	*	C		241	3.0	
	WEND	12	0930E		0944	S17	E30	.531	17401	14.6	14D	-F	*	C	0930	80	1.0	
GRP91248		12	0923+3	0928+2	0956	S12	W67	.918	17375	7.4	33	-F						
	LEAR	12	0923	0928	0957	S12	W67	.918	17375	7.4	34	-N	3	C		55		
	KANZ	12	0926	0930	0954	S12	W67	.918	17375	7.4	28	-F	1					
249	KANZ	12	1424	1427	1431D	S12	W73	.954	17375	7.1	7D	-N	1					
		12	1511	1717	NO FLARE PATROL													
250	CULG	12	2033U	2050	2117	S18	E24	.457	17401	14.7	44D	-N		C	2050	120	1.4	
251	CULG	12	2127	2130	2142	S08	W14	.249		11.8	15	-N		C	2130	20		
252	CULG	12	2152	2202	2229	S18	E23	.444	17401	14.6	37	-N		C	2202	100	1.1	FKT
253	CULG	12	2213	2219	2240	N11	E30	.552	17391	15.2	27	-N		C	2219	60	.7	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP91254	12	2234	2239 2424	0042	N02	E10	.204	17389	13.7	128	-N						
CULG	13	0018	0024	0038	N03	E10	.215	17389	13.8	20	-F	*	C	0024	50	.5	
CULG	12	2234	2239	0042	N02	E11	.219	17389	13.8	128	-N		C	2239	120	1.2	
255 CULG	12	2255	2302	2327	S12	W52	.788	17379	9.1	32	-F		C	2302	40	.7	
256 CULG	12	2329	2335	2339	S12	W74	.959	17375	7.4	10	-F		C	2335	40		
GRP91257	13	0144	0151+4	0215	N12	E27	.521	17391	15.1	31	-N						EG
MITK	13	0144	0151	0220	N13	E27	.529	17391	15.1	36	-N		C	0151			EG
PURP	13	0154E	0155	0209	N12	E28	.534	17391	15.2	15D	-N		C	0155			EG
258 CULG	13	0233	0244	0256	S08	W60	.864	17386	8.6	23	-F		C	0244	40	.8	
259 CULG	13	0413	0433	0451	S29	E16	.484		14.4	38	-F		C	0433	60	.7	G
GRP91260	13	0428+3	0433+0	0442	S22	E38	.654	17394	16.0	14	-F				30	.4	
CULG	13	0428	0433	0445	S22	E38	.654	17394	16.0	17	-N		C	0433	40	.6	
LEAR	13	0431	0433	0438	S22	E39	.665	17394	16.1	7	-F	3	C		20		
261 CULG	13	0432	0437	0450	S15	W75	.963	17375	7.6	18	-F		C	0437	60		
GRP91262	13	0515	0517+0	0534	S14	W83	.991	17375	7.0	19	-N						
CULG	13	0515.	0517	0542	S15	W87	.998	17375	6.7	27	1N		C	0517	100		
LEAR	13	0517E	0517U	0526	S14	W79	.979	17375	7.3	9D	-N	3	C				
GRP91263	13	0547+6	0600+5	0626	S18	E18	.379	17401	14.6	39	-F				50	.5	
LEAR	13	0547	0600	0620D	S19	E18	.389	17401	14.6	33D	-F	*	C		40		
CULG	13	0553	0605	0626	S18	E18	.379	17401	14.6	33	-F	*	C	0605	60	.7	T
GRP91264	13	0549+4	0553+2	0603	N08	E08	.254	17389	13.8	14	-F						U
CULG	13	0549	0553	0608	N08	E08	.254	17389	13.8	19	1F		C	0553	200	2.0	U
LEAR	13	0553	0555	0558	N08	E09	.263	17389	13.9	5	-F	3	C		24		
265 CULG	13	0551U	0607	0639	S17	E62	.883	17405	17.9	48D	-F		C	0607	30	.7	
266 CULG	13	0701	0708	0736	S18	E18	.379	17401	14.6	35	-F		C	0708	70	.8	T
267 LEAR	13	0913	0921	0932	S04	W65	.905	17386	8.5	19	-F	3	C		35		
	13	1151	1208	NO FLARE PATROL													
	13	1712	1822	NO FLARE PATROL													
	13	1842	1909	NO FLARE PATROL													
268 CULG	13	2034	2037	2044	N18	W59	.885	17387	9.4	10	-F		C	2037	60	1.2	
	13	2059	2109	NO FLARE PATROL													
	13	2137	2138	NO FLARE PATROL													
269 CULG	13	2151	2155	2210	N10	W01	.248	17389	13.8	19	-F		C	2155	80	.8	
GRP91270	13	2330	2348 2354+1	0048	N21	E01	.428	17392	14.1	78	-N						EG
VORO	14	0020E		0050	N22	E02	.446	17392	14.2	30D	-N		P	0021	90	1.0	E
CULG	13	2330	2348U	0010	N21	W03	.431	17392	13.8	40	1N		C	2348	280	2.8	F
MITK	13	2353E	2354	0048	N22	E03	.446	17392	14.2	55D	-N		C	2354			EG
MANI	13	2354E	2355U	0009D	N20	E00	.412	17392	14.0	15D	-F	1	V		25	.3	
271 VORO	14	0034		0054D	N14	E08	.343	17391	14.6	20D	-F		P	0040	27	.3	DJ
272 LEAR	14	0111	0111	0123	N03	W04	.147	17389	13.7	12	-F	3	C		26		
273 LEAR	14	0119E	0127U	0130	S16	W90	1.000	17375	7.3	11D	-F	3	C				
274 VORO	14	0121	0124	0150	N04	E66	.917	17403	19.0	29	-F		C	0124	36		EK
275 CULG	14	0210	0210	0225	S06	W44	.693	17397	10.8	15	-F		C	0210	40	.6	
276 ABST	14	0615	0624	0628	N17	W61	.898	17387	9.7	13	-F		C	0624	79		DJK

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
277 ABST	14	0704	0707	0716D	N18	W61	.900	17387	9.7	12D	-F		P	0707	79		DJ
278 HTPR	14	0827	0832	0838	N03	W10	.216	17389	13.6	11	-F		C	0832	20	.2	
GRP91279	14	0936+4	0939+3	0953	S18	E01	.235	17401	14.5	17	-N				130	1.3	E
KANZ	14	0936	0940	0954	S18	E02	.237	17401	14.5	18	-N	2					
YUNN	14	0937	0942	0950	S19	E01	.252	17401	14.5	13	-N		P		96	1.0	
LEAR	14	0938	0939	0954	S19	E01	.252	17401	14.5	16	-N	3	C		173		
HTPR	14	0939	0940	0950	S18	W01	.235	17401	14.3	11	-B		C	0940	150	1.5	E
WEND	14	0940	0941	0954	S17	E01	.218	17401	14.5	14	-N		C	0941	106	1.1	
280 KANZ	14	1042	1046	1058	S21	E05	.297	17401	14.8	16	-F	2					
GRP91281	14	1212+4	1216+0	1223	N15	W68	.940	17387	9.4	11	-F						
KANZ	14	1212	1216	1224	N15	W69	.946	17387	9.3	12	-F	1					
RAMY	14	1216	1216	1222	N15	W68	.940	17387	9.4	6	-F	3	C		20		
GRP91282	14	1230+2	1232+4	1246	S19	E89	.999	17408	21.2	16	-N						
HTPR	14	1230	1232	1245	S19	E90	1.000	17408	21.3	15	-B		C	1232	50		
KANZ	14	1232	1236	1247	S19	E89	.999	17408	21.2	15	-N	2					
GRP91283	14	1243+2	1249+2 1255	1315	N02	W10	.206	17389	13.8	32	-F				20	.2	E
KANZ	14	1243	1251	1302	N02	W10	.206	17389	13.8	19	-F	2					
RAMY	14	1245	1249	1315	N02	W10	.206	17389	13.8	30	-F	3	C		23		
HTPR	14	1245	1251	1500	N03	W12	.244	17389	13.6	135	-F		C	1251	20	.2	E
HTPR	14	1246	1255	1330	N05	W16	.318	17389	13.3	44	-F		C	1251	10	.1	
284 RAMY	14	1516	1517	1531	N05	W12	.263	17389	13.7	15	-F	3	C		27		
285 BIGB	14	1654	1656	1720	N02	W13	.250	17389	13.7	26	-N	2	C	1656	40	.4	
GRP91286	14	2057+2	2101+6	2132	N12	E02	.285	17391	15.0	35	1B				200	2.1	
CULG	14	2057	2102	2132D	N12	E02	.136	17391	15.0	35D	1B		C	2102	380	3.8	F
BIGB	14	2059	2101	2131	N14	E02	.318	17391	15.0	32	-B	3	C	2101	160	1.6	
HOLL	14	2103E	2107	2133	N11	E02	.268	17391	15.0	30D	1B	3	C		203		D
GRP91287	14	2320>9	2340+0	0005	N05	W16	.318	17389	13.8	45	-F						FK
CULG	14	2320U	2340	0019	N05	W16	.318	17389	13.8	59D	1F		C	2340	200	2.1	FK
LEAR	14	2339	2340U	2351	N05	W16	.318	17389	13.8	12	-F	3	C		65		
GRP91288	15	0048+1	0050+0	0055	N02	W16	.297	17389	13.8	7	-F						E
CULG	15	0048	0050	0055	N02	W16	.297	17389	13.8	7	-F		C	0050	80	.8	
VORO	15	0049	0050	0054	N02	W16	.297	17389	13.8	5	-F		C	0050	27	.3	E
289 VORO	15	0246	0248	0253	S34	E01	.492		15.2	7	-F		C	0248	36	.4	DH
GRP91290	15	0327+1	0329+1	0338	N02	W17	.312	17389	13.9	11	-F				60	.6	EK
CULG	15	0327	0330	0340	N02	W18	.328	17389	13.8	13	-F		C	0330	80	.8	
VORO	15	0328	0329	0336	N02	W16	.297	17389	13.9	8	-F		C	0329	45	.5	EK
GRP91291	15	0408>9	0419+1	0430	N02	W18	.328	17389	13.8	22	-F						F
CULG	15	0408	0420	0426	N04	W19	.355	17389	13.7	18	-F		C	0420	180	1.9	F
LEAR	15	0419	0419	0436	N01	W18	.323	17389	13.8	17	-F	3	C		35		
YUNN	15	0425E		0430	N02	W18	.328	17389	13.8	5D	-N		P		32	.3	
GRP91292	15	0433>9	0445 0452	0459	N01	W18	.323	17389	13.8	26	-N						DK
CULG	15	0433U	0445	0503	N02	W18	.328	17389	13.8	30D	-N		C	0445	90	.9	K
PEKG	15	0450	0452	0455	N01	W19	.338	17389	13.8	5	-N		C	0454	25	.3	D
293 CULG	15	0449	0505U	0512	N22	W12	.485	17392	14.3	23	-F		C	0505	60	.7	
294 ABST	15	0848E	0902	0907D	N04	W23	.415	17389	13.6	19D	-F		P	0902	87	1.0	DJ
295 LEAR	15	0912	0913	0923	N03	W22	.395	17389	13.7	11	-F	3	C		31		
	15	1201	1207	NO FLARE PATROL													

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GRP91296	15	1517+1	1525+0	1554	S23	E06	.331	17394	16.1	37	-N			190	2.0	
RAMY	15	1517	1525	1554	S23	E07	.336	17394	16.2	37	1N	3 C		213		
HOLL	15	1518	1525	1553	S23	E06	.331	17394	16.1	35	-N	3 C		176		
297 HOLL	15	1706	1710	1748	N07	W40	.663	17384	12.7	42	?N	3 C		279		
			IMP.1 NO : RAMY													
298 HOLL	15	1722	1723	1735	N05	W26	.464	17389	13.8	13	-N	3 C		57		
299 HOLL	15	1907	1907	1923	N04	W28	.489	17389	13.7	16	-F	3 C		84		
300 HOLL	15	1907	1908	1924	N13	W28	.543	17389	13.7	17	-F	3 C		29		
GRP91301	15	2117+0	2118 2125	2140	N02	W28	.481	17389	13.8	23	-N					D
CULG	15	2117	2125U	2140	N02	W27	.466	17389	13.9	23	-N	C	2125	70	.8	
HOLL	15	2117	2118	2139	N02	W29	.496	17389	13.7	22	-B	3 C		34		D
GRP91302	16	0024	0027+1	0043	N04	E41	.667	17403	19.1	19	-F			60	.8	JK
VORO	16	0024	0028	0048	N04	E42	.680	17403	19.2	24	-N	C	0028	90	1.0	EJK
PEKG	16	0025E	0027	0037	N04	E41	.667	17403	19.1	12D	-F	P	0027	42	.6	D
303 LEAR	16	0657E	0658U	0703	S19	E62	.883	17408	20.9	6D	-F	2 C		34		
304 PEKG	16	0712	0716	0720	N05	W36	.605	17389	13.6	8	-F	P	0719	21	.3	D
GRP91305	16	0832+6	0836+2	0848	S21	E58	.853	17408	20.7	16	-F			40	.8	
YUNN	16	0832	0836	0851	S21	E56	.836	17408	20.6	19	-N	C		16	.3	
CATA	16	0835E	0835	0835D	S22	E58	.854	17408	20.7		-F	2 P	0835	45	.9	
KANZ	16	0838	0838	0846	S20	E58	.852	17408	20.7	8	-F	2				
LEAR	16	0839E	0839U	0848	S22	E60	.870	17408	20.9	9D	-N	2 C		35		
GRP91306	16	0854+0	0857+1	0905	N04	E35	.588	17403	19.0	11	-F					
LEAR	16	0854	0857	0901	N03	E36	.599	17403	19.1	7	-F	2 C		21		
KANZ	16	0854	0858	0909	N05	E35	.591	17403	19.0	15	-F	2				
307 HTPR	16	0937	0938	0942	N05	E32	.550	17403	18.8	5	-B	C	0938	40	.5	
308 KANZ	16	1240	1240	1256D	S22	E64	.900	17408	21.3	16D	-F	2				
GRP91309	16	1313	1314	1327	N11	W27	.516	17391	14.5	14	-B					G
HTPR	16	1313	1314	1325	N12	W32	.586	17391	14.2	12	-B	C	1314	70	.8	
KANZ	16	1321E	1321	1328	N11	W22	.453	17391	14.9	7D	-F	2				G
310 HTPR	16	1359	1403	1414	N09	W43	.707	17389	13.4	15	-F	C	1403	30	.4	E
311 KANZ	16	1411	1415	1423	S22	E63	.893	17408	21.3	12	-F	2				
	16	1527	2314	NO FLARE PATROL												
312 VORO	16	2338E		2356D	N03	E27	.470	17403	19.0	18D	-N	P	2338	45	.5	DJ
313 VORO	17	0134	0135	0139	S22	E58	.854	17408	21.4	5	-F	C	0135	54	1.0	E
314 YUNN	17	0239	0243	0253	N15	E64	.916	17409	21.9	14	-N	C		32		
GRP91315	17	0304+2	0308+2	0320	S22	E49	.771	17408	20.8	16	-N			35	.6	DJ
YUNN	17	0304	0309	0317	S21	E47	.748	17408	20.7	13	-N	C		16	.2	
VORO	17	0306	0310	0323	S22	E50	.781	17408	20.9	17	-F	C	0310	54	.8	DJ
PURP	17	0308E	0308	0314D	S23	E49	.773	17408	20.8	6D	-N	P				D
316 YUNN	17	0825	0830	0840	N15	E64	.916	17409	22.2	15	-N	C		48		
317 HTPR	17	0923		1010	N13	E62	.899	17409	22.0	47	-F	C	0940	20	.4	
GRP91318	17	1011+6	1015+3	1033	N02	W47	.737	17389	13.9	22	-F					E
KANZ	17	1011	1015	1023	N01	W46	.723	17389	14.0	12	-F	2				
HTPR	17	1017	1018	1042	N04	W48	.752	17389	13.8	25	-N	C	1018	40	.6	E
319 HTPR	17	1016	1023	1047	S22	E44	.718	17408	20.7	31	-N	C	1023	20	.3	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
GRP91320	17	1052+3	1053+2	1105	N02	W47	.737	17389	13.9	13	-F			20	.3	E
HTPR	17	1052	1053	1100	N03	W48	.750	17389	13.9	8	-F	C	1053	20	.3	E
CATA	17	1055	1055	1110	N02	W47	.737	17389	13.9	15	-F 1	C	1055	17	.2	
GRP91321	17	1134>9	1145+5	1200	S24	W18	.437	17394	16.1	26	-F			120	1.3	EG
KANZ	17	1134	1145	1157	S25	W18	.448	17394	16.1	23	-N 2					GE
CATA	17	1140	1150	1200D	S24	W19	.447	17394	16.1	20D	-F 2	P	1150	140	1.6	
LVOV	17	1144	1149	1202	S23	W18	.426	17394	16.1	18	-F	C	1149	100	1.1	EG
	17	1401	2320	NO FLARE PATROL												
	17	2330	2344	NO FLARE PATROL												
322 VORO	18	0116	0117	0124	N08	E13	.313	17403	19.0	8	-F	C	0117	27	.3	DJK
GRP91323	18	0214+4	0216+3	0231	N07	E10	.267	17403	18.8	17	-N					EJ
PEKG	18	0204	0216	0232	N07	E11	.278	17403	18.9	28	-N	C	0216	21	.2	E
VORO	18	0214	0216	0231	N07	E12	.290	17403	19.0	17	-N	C	0216	63	.7	DJ
YUNN	18	0215	0219	0228	N07	E10	.267	17403	18.8	13	-N	C		161	1.7	
PURP	18	0218	0225	0225D	N07	E10	.267	17403	18.8	7D	-N	P				E
GRP91324	18	0305+0	0306+4	0319	N06	E10	.254	17403	18.9	14	-F			40	.4	EK
VORO	18	0305	0306	0317	N06	E12	.278	17403	19.0	12	-F	C	0306	54	.6	EK
YUNN	18	0305	0310	0320	N07	E09	.256	17403	18.8	15	-F	C		32	.3	
325 KANZ	18	1232	1243	1305	S19	W52	.794	17401	14.6	33	-F 2					
326 KANZ	18	1236	1249	1305	N01	W65	.908	17389	13.6	29	-F 2					
	18	1401	2044	NO FLARE PATROL												
	18	2120	2124	NO FLARE PATROL												
GRP91327	19	0037E	0103+7	0114	N05	W01	.173	17403	19.0	37	-F					J
CULG	19	0037U	0110U	0140U	N05	W02	.176	17403	18.9	63D	1F	C	0110	260	2.6	F
VORO	19	0047E		0100	N03	W03	.147	17403	18.8	13D	-F	P	0047	27	.3	D
YUNN	19	0100	0105	0116	N05	W01	.173	17403	19.0	16	-F	C		80	.8	
VORO	19	0101	0103	0111	N06	E02	.193	17403	19.2	10	-F	C	0103	36	.4	EJ
GRP91328	19	0255+7	0303+2	0315	S22	E29	.542	17408	21.3	20	-N			70	.8	
YUNN	19	0255	0305	0315	S24	E30	.568	17408	21.4	20	-N	C		96	1.2	
CULG	19	0302	0303	0314	S21	E29	.536	17408	21.3	12	-N	C	0303	50	.6	
329 CULG	19	0400	0403	0410	S20	E33	.580	17408	21.6	10	-F	C	0403	80	1.0	
GRP91330	19	0729+6	0733+5	0752	S20	E75	.962	17414	24.9	23	-N			35		EGJ
ABST	19	0729	0733	0743D	S19	E77	.971	17414	25.1	14D	1N	P	0733	148		FGJ
PEKG	19	0734	0736	0743	S19	E71	.942	17414	24.6	9	-N	C	0736	25	.7	E
YUNN	19	0735	0738	0800	S23	E79	.978	17414	25.2	25	-N	C		16		E
CATA	19	0740E	0740	0740D	S22	E73	.953	17414	24.8		-F 1	P	0740	39		
	19	1351	1544	NO FLARE PATROL												
331 BIGB	19	2211	2221	2252	N13	E75	.973	17417	25.5	41	-N 2	C	2211	60		
332 BIGB	19	2227	2237	2323	S21	E69	.931	17414	25.1	56	-F 2	C	2323	40		
333 CULG	20	0107	0113	0130	S05	E80	.984	17421	26.0	23	?F	C	0113	80		
		IMP.1 NO : MITK LEAR														
334 CULG	20	0237	0252	0307	N13	E70	.950	17417	25.4	30	-N	C	0252	50		
335 CULG	20	0242	0252	0330	N19	W54	.851	17399	16.1	48	-F	C	0252	40	.7	
336 LEAR	20	0547	0548	0556	N14	E71	.956	17417	25.6	9	-F 3	C		21		
	20	0557	0558	NO FLARE PATROL												
337 YUNN	20	0621	0626	0631	N04	W90	1.000	17389	13.5	10	-N	C		16		A
338 CATA	20	0840	0850	0900	N04	W90	1.000	17389	13.6	20	?F 2	C	0850	56		
		IMP.1 NO : LEAR YUNN														

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	20	0926	0928	NO FLARE PATROL													
339 CATA	20	0945E	0955	1005D	N05	W90	1.000	17389	13.7	20D	?F	2	P	0955	56		
		IMP.1 NO : LEAR YUNN															
	20	1027	1107	NO FLARE PATROL													
	20	1158	1323	NO FLARE PATROL													
	20	1341	1357	NO FLARE PATROL													
	20	1359	1459	NO FLARE PATROL													
	20	1528	1534	NO FLARE PATROL													
GRP91340	20	1542+2	1545+0	1613	N05	W23	.424	17403	18.9	31	-N				45	.5	
RAMY	20	1542	1545	1619	N05	W23	.424	17403	18.9	37	-N	3	C		45		
BIGB	20	1544	1545	1606	N05	W23	.424	17403	18.9	22	-N	2	C	1545	40	.4	
341 BIGB	20	2043	2048	2118	N28	E70	.966	17419	26.1	35	-F	2	C	2048	60	1.4	
342 CULG	20	2253	2254	2304	S09	E63	.888	17418	25.7	11	-F		C	2254	60	1.4	
GRP91343	21	0009+0	0010+1	0017D	N16	E55	.851	17413	25.1	8	-N				60	1.1	
BIGB	21	0009	0011	0014D	N18	E55	.857	17413	25.1	5D	-N	2	P	0011	80	1.4	
CULG	21	0009	0010	0017D	N15	E55	.849	17413	25.1	8D	-N		P	0010	40	.8	
GRP91344	21	0347+7	0354	0401	N11	E60	.882	17417	25.7	14	-F				45	.9	EJ
VORO	21	0347		0400D	N12	E60	.883	17417	25.7	13D	-N		P	0350	63	1.3	EJ
LEAR	21	0354	0354	0401	N10	E61	.888	17417	25.7	7	-F	3	C		28		
345 CULG	21	0402	0403	0407	S04	E61	.873	17421	25.7	5	-F		C	0403	50	1.0	
346 CULG	21	0440	0441	0455U	N05	W30	.524	17403	18.9	15D	-F		C	0441	70	.8	
347 CULG	21	0518	0519	0524	S02	E63	.890	17421	25.9	6	-F		C	0519	70	1.5	
GRP91348	21	0713+0	0717+2	0726	N04	W31	.534	17403	19.0	13	-F				60	.7	
CULG	21	0713	0717	0720D	N05	W31	.538	17403	19.0	7D	-F		P	0717	70	.8	
LEAR	21	0713	0719	0726	N03	W32	.544	17403	18.9	13	-F	3	C		57		
349 YUNN	21	0923	0926	0927	S24	E01	.324	17408	21.5	4	-N		C		32	.4	D
	21	1518	1526	NO FLARE PATROL													
350 BIGB	21	1716	1719	1802	N19	E02	.410	17409	21.9	46	-N	2	C	1719	60	.6	
351 HOLL	21	2347	2348	2359D	S26	E63	.895	17420	26.7	12D	-F	2	C		33		
352 VORO	22	0010E		0015D	S20	W10	.304	17408	21.3	5D	-F		P	0011	63	.7	E
GRP91353	22	0357+1	0358+6	0421	S23	E40	.675	17414	25.2	24	-N				90	1.2	U
CULG	22	0357	0358	0426	S23	E40	.675	17414	25.2	29	-N		C	0358	90	1.3	U
LEAR	22	0357	0404	0421	S23	E38	.652	17414	25.0	24	-B	3	C		65		D
VORO	22	0358		0400	S22	E41	.683	17414	25.2	2	-N		P	0400	116	1.6	E
354 CULG	22	0702	0709	0710D	N10	E46	.746	17417	25.7	8D	-F		P	0709	80	1.2	
355 KANZ	22	0829	0837	0855	N17	E09	.406	17412	23.0	26	-F	1					
GRP91356	22	1203+0	1207+4	1219	S25	E33	.606	17414	25.0	16	-F						G
KANZ	22	1203	1207	1223	S25	E33	.606	17414	25.0	20	-F	2					
WEND	22	1203	1211	1215	S25	E33	.606	17414	25.0	12	-F		C	1211	25	.3	G
357 KANZ	22	1215	1219	1231	N25	E76	.984	17422	28.2	16	-F	2					
358 KANZ	22	1235	1251	1336	N25	E76	.984	17422	28.2	61	-F	2					
GRP91359	22	1517+1	1518+2	1527	S20	E32	.566	17414	25.0	10	-F						E
HOLL	22	1517	1518	1525	S23	E32	.582	17414	25.0	8	-F	2	C		35		
HTPR	22	1518	1520	1529	S18	E33	.569	17414	25.1	11	-N		C	1520	100	1.2	E
GRP91360	22	1704+4	1710+2	1728	S22	E32	.577	17414	25.1	24	-F				50	.6	
BIGB	22	1704	1710	1728	S21	E34	.596	17414	25.3	24	-F	1	C	1710	70	.9	
HOLL	22	1708	1712	1728	S23	E30	.559	17414	25.0	20	-F	2	C		25		

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	22	1902	1910	NO FLARE PATROL												
361 HOLL	22	1913	1920	1935	S03	E44	.694	17421	26.1	22	-F	2 C		20		
362 BIGB	22	2008	2010	2016	N21	E31	.645	17413	25.2	8	-F	2 C	2010	30	.4	
GRP91363	22	2049+4	2056+1	2111	S24	W19	.442	17408	21.4	22	-F					F
CULG	22	2049	2056	2115D	S25	W20	.463	17408	21.4	26D	1F	P	2056	180	2.1	F
HOLL	22	2053	2057	2107	S24	W18	.431	17408	21.5	14	-F	3 C		22		
364 CULG	22	2058	2101	2106	N05	W54	.818	17403	18.8	8	-F	C	2101	30	.5	
	22	2116	2121	NO FLARE PATROL												
GRP91365	22	2119	2123+1	2128D	S23	E33	.594	17414	25.4	9	-F			30	.4	
HOLL	22	2119	2124	2128	S24	E33	.600	17414	25.4	9	-F	3 C		20		
CULG	22	2122E	2123U	2158	S22	E33	.589	17414	25.4	36D	-N	P	2123	40	.5	
366 CULG	22	2132	2133	2136	S18	W21	.410	17408	21.3	4	-F	C	2133	30	.3	
GRP91367	22	2318>9	2340+3	2358D	N04	W56	.836	17403	18.8	40	-F					
CULG	22	2318	2340	0120	N05	W55	.828	17403	18.8	122	1F	C	2340	200	3.6	EF
HOLL	22	2331	2343	2358	N03	W57	.844	17403	18.7	27	-F	2 C		59		
GRP91368	23	0118+2	0123+1	0133	S23	E26	.511	17414	25.0	15	-N			130	1.5	H
CULG	23	0118	0123	0137	S24	E26	.518	17414	25.0	19	-B	C	0123	170	2.0	H
VORO	23	0120	0124	0128	S23	E27	.522	17414	25.1	8	-N	C	0124	90	1.0	
369 CULG	23	0425U	0443	0521	S25	E53	.813	17420	27.2	56D	-F	C	0443	40	.7	K
GRP91370	23	0531+1	0534+2	0544	N13	E26	.525	17417	25.2	13	-N					F
CULG	23	0531	0536	0548	N14	E27	.545	17417	25.3	17	1N	C	0536	210	2.5	F
LEAR	23	0532	0534	0540	N13	E26	.525	17417	25.2	8	-F	3 C		53		
371 CULG	23	0624E	0625U	0634	S21	W28	.521	17408	21.2	10D	-F	P	0625	30	.4	
372 YUNN	23	0647D	0652	0653E	S23	E22	.464	17414	24.9	6D	-F	P		16	.2	
373 KANZ	23	0950	0954	1002	S24	W26	.518	17408	21.5	12	-F	3				
374 KANZ	23	1006	1010	1034	N02	W63	.894	17403	18.7	28	-F	3				
375 KANZ	23	1039	1139	1151	S11	E32	.532	17418	25.8	72	-F	3				
376 KANZ	23	1326	1326	1330	S22	E21	.443	17414	25.1	4	-F	3				
GRP91377	23	1421+0	1424+2	1436	N05	W63	.897	17403	18.9	15	-N					
RAMY	23	1303	1424	1437	N05	W63	.897	17403	18.8	94	-N	3 C		82		
WEND	23	1421	1426	1436	N05	W65	.912	17403	18.7	15	-F	C	1426	31		
KANZ	23	1421	1424	1432	N03	W63	.895	17403	18.9	11	-N	3				
378 WEND	23	1442	1444	1457	N18	W05	.404	17412	23.2	15	-F	C	1444	25	.3	
	23	1525	1628	NO FLARE PATROL												
379 CULG	23	2307	2309	2313	S20	W38	.639	17408	21.1	6	-F	C	2309	20	.3	
380 CULG	23	2339	2341	0002	S08	E23	.391	17418	25.7	23	-F	C	2341	70	.8	
381 CULG	23	2349	2350	2356	N17	W10	.413	17412	23.2	7	-F	C	2350	90	1.0	
382 CULG	23	2354	2356	2359	S20	W38	.639	17408	21.1	5	-F	C	2356	20	.3	
383 CULG	24	0006	0009	0020	S19	W38	.635	17408	21.2	14	-F	C	0009	20	.3	HT
384 CULG	24	0031	0033	0050	S19	W41	.672	17408	20.9	19	-F	C	0033	80	1.0	HT
385 CULG	24	0103	0104	0115U	S19	W39	.647	17408	21.1	12D	-F	C	0104	30	.4	HT

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GRP91386	24	0220+0	0221+4	0233	S20	W42	.686	17408	20.9	13	-N			100	1.4	E
CULG	24	0220	0221	0230	S19	W41	.672	17408	21.0	10	-N	P	0221	110	1.5	T
VORO	24	0220	0225	0236	S21	W43	.701	17408	20.9	16	-N	C	0225	99	1.4	E
GRP91387	24	0233+1	0236+4	0258	S12	E22	.386	17418	25.8	25	-N			100	1.1	JK
CULG	24	0233	0240U	0250D	S12	E22	.386	17418	25.8	17D	-N	P	0240	160	1.8	
VORO	24	0234	0238	0258	S12	E24	.416	17418	25.9	24	-N	C	0238	134	1.5	JK
LEAR	24	0234	0237	0259	S12	E23	.401	17418	25.8	25	-N 3	C		76		
YUNN	24	0236E	0236	0250	S12	E22	.386	17418	25.8	14D	-F	P		18	.2	
GRP91388	24	0329+1	0331+8	0350	S07	E21	.357	17418	25.7	21	-F			35	.4	JK
PEKG	24	0329	0339	0352	S07	E21	.357	17418	25.7	23	-F	C	0339	21	.2	D
YUNN	24	0330	0335	0345	S08	E20	.343	17418	25.6	15	-N	C		16	.2	
CULG	24	0330E	0331U	0350U	S07	E22	.414	17418	25.8	20D	-F	P	0331	50	.6	
VORO	24	0330	0333	0350	S07	E22	.373	17418	25.8	20	-F	C	0333	45	.5	EJK
GRP91389	24	0332>9	0344+1	0355	N17	W13	.435	17412	23.2	23	-F			45	.5	DHJ
PEKG	24	0332	0344	0355	N18	W13	.449	17412	23.2	23	-F	C	0344	34	.4	D
CULG	24	0340	0345	0357	N18	W11	.435	17412	23.3	17	-F	C	0345	100	1.0	
LEAR	24	0342	0344	0351	N16	W13	.422	17412	23.2	9	-F 3	C		31		
VORO	24	0342	0345	0355	N17	W14	.443	17412	23.1	13	-F	C	0345	63	.7	DJH
GRP91390	24	0411>9	0426+3	0448	S25	E37	.650	17420	26.9	37	1B			180	2.4	
CULG	24	0411	0427	0500	S25	E37	.650	17420	26.9	49	1B	C	0427	200	2.6	F
YUNN	24	0418	0429	0443	S26	E39	.676	17420	27.1	25	1B	C		401	5.0	F
LEAR	24	0419	0426	0450	S25	E38	.661	17420	27.0	31	-B 3	C		135		
PEKG	24	0422	0428	0446	S25	E36	.639	17420	26.9	24	-B	C	0429	134	1.8	E
MITK	24	0423	0429	0448	S25	E37	.650	17420	27.0	25	1N	C	0429	190	2.6	E
391 PEKG	24	0433	0436	0436D	S11	E83	.991	17426	30.4	3D	-F	P	0436	21		D
GRP91392	24	0448+2	0451+2	0506	S08	E20	.343	17418	25.7	18	-B			140	1.5	
CULG	24	0448	0452	0506	S07	E20	.341	17418	25.7	18	-B	C	0452	190	1.9	
LEAR	24	0449	0452	0507	S08	E21	.359	17418	25.8	18	-B 3	C		158		D
PEKG	24	0450	0453	0503	S08	E21	.359	17418	25.8	13	-B	C	0453	126	1.4	E
YUNN	24	0451E	0451	0500D	S08	E19	.326	17418	25.6	9D	-N	P		64	.7	
GRP91393	24	0635+5	0640+5	0650	N13	E09	.349	17413	24.9	15	-F					E
YUNN	24	0635D	0640	0649	N12	E09	.335	17413	24.9	14D	-N	P		32	.4	
PEKG	24	0637	0642	0651	N14	E09	.364	17413	25.0	14	-N	C	0642	76	.8	E
CULG	24	0638	0645	0650	N15	E11	.393	17413	25.1	12	-F	C	0645	150	1.6	
LEAR	24	0640	0641	0649	N13	E10	.357	17413	25.0	9	-F 3	C		42		
394 HTPR	24	0839	0841	0900	N17	W15	.452	17412	23.2	21	-F	C	0841	20	.2	
395 WEND	24	1014		1035	S20	W43	.698	17408	21.2	21	-F	C	1014	25	.4	
396 HTPR	24	1114	1118	1125	N21	W24	.579	17411	22.7	11	-F	C	1118	30	.3	E
397 KANZ	24	1157	1201	1209	N02	E54	.813	17424	28.5	12	-F 3					LG
398 RAMY	24	1223	1227	1327	N16	W29	.585	17409	22.3	64	-N 3	C		104		
GRP91399	24	1342+1	1346+0	1354	S07	E16	.275	17418	25.8	12	-F					E
KANZ	24	1342	1346	1354	S08	E16	.277	17418	25.8	12	-F 3					
HTPR	24	1343	1346	1354	S07	E16	.275	17418	25.8	11	-F	C	1346	20	.2	E
400 HTPR	24	1604	1606	1612	S25	E33	.605	17420	27.1	8	-F	C	1606	30	.4	E
GRP91401	24	1651+0	1651+1	1707	S24	E30	.564	17420	27.0	16	-F			70	.9	
RAMY	24	1651	1651	1706	S24	E31	.576	17420	27.0	15	-F 3	C		47		
BIGB	24	1651	1652	1711	S24	E30	.564	17420	27.0	20	-N 2	C	1652	80	1.0	
HOLL	24	1651	1652	1707	S24	E30	.564	17420	27.0	16	-F 2	C		66		
GRP91402	24	1924+4	1933+0	1957	S11	E14	.258	17418	25.9	33	-F			110	1.1	
RAMY	24	1924	1933	1956	S11	E14	.258	17418	25.9	32	-F 3	C		132		
BIGB	24	1928	1933	1958	S12	E14	.264	17418	25.9	30	-F 2	C	1933	90	1.0	
403 RAMY	24	2033	2033	2041	S12	E12	.235	17418	25.8	8	-F 3	C		28		
404 RAMY	24	2059	2059	2110	S12	E11	.220	17418	25.7	11	-F 3	C		21		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91405	24	2212+0	2217+1	2259D	S05	E16	.275	17421	26.1	47	-B						F
CULG	24	2212E	2217	2330U	S05	E15	.258	17421	26.0	78D	1N		P	2217	440	4.4	F
BIGB	24	2212	2218	2259	S05	E17	.291	17421	26.2	47	-B	3	C	2218	130	1.9	
406 CULG	24	2212E	2217U	2236	N19	W33	.651	17411	22.4	24D	-F		P	2217	70	.9	
407 CULG	25	0109	0113	0121	S17	E90	1.000	17428	31.8	12	?F		C	0113	20		T
			IMP.1	NO : LEAR		YUNN											
GRP91408	25	0212+2	0216+0	0220	S15	E90	1.000	17428	31.8	8	-N				25		A
CULG	25	0212	0216	0220	S17	E90	1.000	17428	31.8	8	1F		C	0216	30		T
YUNN	25	0214	0216	0220	S14	E90	1.000	17428	31.8	6	-N		C		16		A
409 CULG	25	0255	0303	0313	N12	W33	.604		22.6	18	-F		C	0303	60	.8	
410 LEAR	25	0308	0309	0323	N10	E06	.285	17417	25.6	15	-F	3	C		24		
411 CULG	25	0325	0329	0340	S26	E05	.360	17414	25.5	15	-F		C	0329	90	1.0	
GRP91412	25	0400+8	0411+3	0430	S14	E90	1.000	17428	31.9	30	1N				90		AFKW
YUNN	25	0400	0411	0425	S14	E90	1.000	17428	31.9	25	1N		C		112		AFKW
CULG	25	0403	0414	0430	S15	E90	1.000	17428	31.9	27	1N		C	0414	80		T
LEAR	25	0408	0414	0430	S14	E90	1.000	17428	31.9	22	-N	3	C				
GRP91413	25	0459+3	0505	0700	S15	E90	1.000	17428	1.0	121	1N						AFKW
			0609+4														
CULG	25	0459	0613	0700U	S16	E90	1.000	17428	1.0	121D	1N		C	0613	60		KFT
YUNN	25	0502	0505	0542	S14	E90	1.000	17428	1.0	40	1N		C		113		AW
YUNN	25	0551	0609	0700	S14	E90	1.000	17428	1.0	69	-N		C		16		AFKW
414 YUNN	25	0545	0549	0553	N11	E08	.314	17417	25.8	8	-F		C		48	.5	
GRP91415	25	0702+3	0705+3	0721	N17	W30	.605	17412	23.0	19	-N						W
YUNN	25	0702D	0705	0714	N17	W28	.583	17412	23.2	12D	-N		P		80	1.1	EW
CULG	25	0703	0708U	0805U	N19	W30	.621	17412	23.0	62D	1N		C	0708	380	4.9	F
LEAR	25	0705	0706	0721	N17	W32	.626	17412	22.9	16	-F	3	C		38		
416 YUNN	25	0705	0707	0729	N11	E07	.307	17417	25.8	24	-F		C		80	.9	EW
GRP91417	25	0723+5	0738+1	0804	S14	E90	1.000	17428	1.1	41	1N				60		AKW
YUNN	25	0723	0738	0805	S14	E90	1.000	17428	1.1	42	1N		C		161		AKTW
CULG	25	0728	0739	0804	S16	E90	1.000	17428	1.1	36	1N		C	0739	60		TK
CATA	25	0735E	0735	0735D	S15	E90	1.000	17428	1.1		1F	1	P	0735	56		A
HTPR	25	0741E		0803	S12	E90	1.000	17428	1.1	22D	-B		C	0741	50		KT
GRP91418	25	0820+5	0833+1	0845	S13	E90	1.000	17428	1.1	25	-B				50		AKW
YUNN	25	0820	0833	0902	S14	E90	1.000	17428	1.1	42	1N		C		161		AKTW
CULG	25	0821	0833D	0833D	S16	E90	1.000	17428	1.1	12D	1N		P	0833	50		T
KANZ	25	0823	0834	0845	S12	E90	1.000	17428	1.1	22	-B	3					
HTPR	25	0825	0834	0845	S12	E90	1.000	17428	1.1	20	-B		C	0834	40		
GRP91419	25	0900+4	0924	0945D	S12	E90	1.000	17428	1.1	45	-N						
HTPR	25	0900	0924	0945	S12	E90	1.000	17428	1.1	45	-N		C	0924	20		
KANZ	25	0904		1021	S14	E90	1.000	17428	1.1	77	-B	3					
KANZ	25	0952	0954	1005	S10	E90	1.000	17428	1.2	13	-N	3					
GRP91420	25	1024+4	1031+0	1047	S12	E90	1.000	17428	1.2	23	-N						
KANZ	25	1024	1031	1053	S13	E90	1.000	17428	1.2	29	-N	3					
HTPR	25	1028	1031	1040	S12	E90	1.000	17428	1.2	12	-B		C	1031	40		
421 KANZ	25	1049	1057	1107	S12	E03	.125	17418	25.7	18	-F	2					
GRP91422	25	1134+1	1136+2	1145	S12	E90	1.000	17428	1.2	11	-N						
KANZ	25	1134	1138	1145	S13	E90	1.000	17428	1.2	11	-N	3					
HTPR	25	1135	1136	1145	S12	E90	1.000	17428	1.2	10	-B		C	1136	20		
423 KANZ	25	1214	1220	1244	N10	E01	.267	17417	25.6	30	-F	3					
GRP91424	25	1224+0	1226	1333	N18	W32	.634	17412	23.1	69	?N						EK
			1244														
HTPR	25	1224	1226	1340	N17	W33	.637	17412	23.0	76	?N		C	1226	150	1.8	EK
			IMP.S	IMP.2													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Hale Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
KANZ	25	1224	1244	1326	N19	W31	.631	17412	23.2	62	2N	3				
GRP91425	25	1248+3	1253+2	1303	S11	E89	.999	17428	1.2	15	-N					E
HTPR	25	1248	1255	1301	S10	E90	1.000	17428	1.3	13	1N	C	1255	100		E
RAMY	25	1250	1253	1320	S14	E79	.978	17428	31.5	30	-N	3 C				
KANZ	25	1251	1255	1303	S11	E89	.999	17428	1.2	12	-N	3				
426 HTPR	25	1554	1557	1601	S12	E90	1.000	17428	1.4	7	-N	C	1557	20		
	25	1605	1614	NO FLARE PATROL												
GRP91427	25	1643+3	1647+2	1657D	S14	E82	.988	17428	31.8	14	-B					
BIGB	25	1643	1649	1740	S15	E90	1.000	17428	1.4	57	1B	3 C	1649	190		
RAMY	25	1646	1647	1657	S13	E75	.962	17428	31.3	11	-B	3 C				
GRP91428	25	1657+0	1659+0	1724	S07	00	.027	17418	25.7	27	-F			120	1.2	
RAMY	25	1657	1659	1723	S07	E01	.032	17418	25.8	26	-F	3 C		137		
BIGB	25	1657	1659	1724	S07	E00	.027	17418	25.7	27	-F	3 C	1659	100	1.0	
GRP91429	25	1907+2	1911+1	1927	S13	E90	1.000	17428	1.5	20	-F					
RAMY	25	1907	1911	1925	S13	E90	1.000	17428	1.5	18	-F	3 C				
BIGB	25	1909	1912	1929	S14	E90	1.000	17428	1.5	20	-N	3 C	1912	70		
430 RAMY	25	1928	1928	1940	N09	W03	.255	17417	25.6	12	-F	3 C		41		
431 CULG	25	2042	2046	2103	S16	E88	.998	17428	1.5	21	?N	C	2046	40		FWT
			IMP.1 NO : BIGB													
432 CULG	25	2053	2146U	2215D	N10	W04	.275	17417	25.6	82D	?F	P	2146	230	2.3	F
			IMP.1 NO : BIGB													
433 CULG	25	2117	2118	2140	S16	E88	.998	17428	1.5	23	-N	C	2118	20		
434 CULG	25	2129	2135	2200	S06	E03	.053	17421	26.1	31	-F	C	2135	40	.4	
435 CULG	25	2252E	2314U	2350	N15	W10	.387	17417	25.2	58D	?F	P	2314	400	4.4	F
			IMP.1 NO : BIGB													
436 CULG	25	2314	2316	2336	N18	W43	.749	17412	22.7	22	?N	C	2316	180	2.7	
			IMP.1 NO : BIGB													
437 CULG	25	2314	2324	2340	S15	E85	.994	17428	1.3	26	1F	C	2324	110		T
GRP91438	25	2348+0	2348+1	2356	S15	E85	.994	17428	1.4	8	-F					
CULG	25	2348	2348	2357	S15	E85	.994	17428	1.4	9	1F	C	2348	60		T
LEAR	25	2348	2349	2355	S15	E85	.994	17428	1.4	7	-F	2 C				
GRP91439	26	0100+1	0102+1	0108	S15	E85	.994	17428	1.4	8	-F			25		DJ
CULG	26	0100	0102	0110	S16	E85	.994	17428	1.4	10	-F	C	0102	20		T
VORO	26	0101	0103	0106	S15	E85	.994	17428	1.4	5	-N	C	0103	27		DJ
GRP91440	26	0200+6	0212+3	0229	S14	E84	.992	17428	1.4	29	1B			90		ADHJ
LEAR	26	0200	0214	0237	S14	E84	.992	17428	1.4	37	1B	3 C				D
PEKG	26	0204	0213	0227	S13	E83	.990	17428	1.3	23	1B	C	0213	55		D
VORO	26	0205	0213	0231	S12	E90	1.000	17428	1.8	26	1B	C	0213	72		DJH
CULG	26	0206	0212	0230	S16	E84	.992	17428	1.4	24	1N	C	0212	120		T
YUNN	26	0207E	0215	0224	S14	E83	.990	17428	1.3	17D	2N	P		257		ATW
441 LEAR	26	0225	0225	0228	S12	E57	.835	17426	30.4	3	-F	3 C		17		
442 LEAR	26	0231	0233	0241	N10	W07	.293	17417	25.6	10	-F	3 C		26		
443 CULG	26	0240	0300	0340	S23	E63	.891		30.8	60	?F	C	0300	110	2.3	
			IMP.1 NO : LEAR VORO YUNN PEKG													
GRP91444	26	0311+1	0311+3	0327	N10	W07	.293	17417	25.6	16	-N					EJK
YUNN	26	0311	0311	0319	N09	W06	.271	17417	25.7	8	1N	C		241	2.6	
PEKG	26	0312	0314	0320	N10	W07	.293	17417	25.6	8	-N	C	0314	46	.5	E
LEAR	26	0312	0313	0323	N10	W07	.293	17417	25.6	11	-N	3 C		116		
CULG	26	0312	0314	0350U	N10	W06	.287	17417	25.7	38D	1B	C	0314	280	2.8	T
VORO	26	0312	0313	0339	N09	W09	.294	17417	25.5	27	-B	C	0313	152	1.6	EJK

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
445 CULG	26	0316	0416	0430U	N16	W58	.877	17409	21.8	74D	-F		C	0416	80	1.6	F
GRP91446	26	0325+2	0328+0	0336	N09	W07	.278	17417	25.6	11	-N						
YUNN	26	0325	0328	0333	N09	W07	.278	17417	25.6	8	-N	*	C		129	1.4	
LEAR	26	0327	0328	0338	N09	W08	.286	17417	25.5	11	-N	*	C		44		
GRP91447	26	0400+1	0402+7	0420	S13	E81	.985	17428	1.2	20	-N						ADK
CULG	26	0250	0408	0424	S13	E83	.990	17428	1.3	94	1F	*	C	0408	110		KT
PEKG	26	0400	0402	0413	S10	E83	.991	17428	1.4	13	-F	*	C	0402	21		D
YUNN	26	0401	0406	0420	S15	E79	.978	17428	1.1	19	1N	*	C		80		A
LEAR	26	0401	0409	0411D	S13	E80	.982	17428	1.2	10D	-B	*	C				D
PEKG	26	0405	0408	0420	S13	E85	.994	17428	1.5	15	-N	*	C	0408	25		D
448 CULG	26	0400U	0408	0444	S27	E10	.398	17420	26.9	44D	-N		C	0408	100	1.1	
449 CULG	26	0400	0406	0422	N11	W06	.302	17417	25.7	22	?N		C	0406	300	3.0	T
			IMP.1	NO : LEAR	YUNN	PEKG											
450 CULG	26	0414	0418	0436	S13	W07	.176	17418	25.7	22	-N		C	0418	60	.6	
451 CULG	26	0428	0430	0436	N10	W07	.293	17417	25.7	8	-F		C	0430	140	1.4	T
452 CULG	26	0524	0526	0532	S08	W06	.112	17418	25.8	8	-F		C	0526	60	.6	
453 CULG	26	0536	0552	0604	N18	W42	.739	17412	23.1	28	-F		C	0552	90	1.4	F
GRP91454	26	0538>9	0610+2	0635	S19	E32	.558	17425	28.6	57	-N				90	1.1	G
CULG	26	0538U	0612	0644	S20	E35	.601	17425	28.9	66D	-N		C	0612	100	1.2	
YUNN	26	0606	0610	0626	S18	E30	.527	17425	28.5	20	-N		C		80	1.0	G
455 CULG	26	0612	0614	0620	S08	E00	.043	17418	26.3	8	-F		C	0614	30	.3	
GRP91456	26	0632+2	0634+2	0641	N11	W10	.331	17417	25.5	9	-N				100	1.1	D
PEKG	26	0632	0634	0637	N12	W10	.345	17417	25.5	5	-N		P	0635	76	.8	D
CULG	26	0632	0636	0642	N10	W10	.317	17417	25.5	10	1N		C	0636	220	2.2	T
LEAR	26	0634	0635	0641	N11	W09	.323	17417	25.6	7	-F	3	C		100		
457 CULG	26	0638	0642	0708	S27	E10	.398	17420	27.0	30	-F		C	0642	70	.8	
GRP91458	26	0640	0646+1	0656D	S07	W06	.107	17418	25.8	16	-F						
CULG	26	0640	0646	0726	S07	W05	.090	17418	25.9	46	1F		C	0646	290	2.9	F
PEKG	26	0644E	0647	0656	S07	W08	.141	17418	25.7	12D	-F		P	0648	17	.2	D
GRP91459	26	0716+5	0721+3	0734	S27	E09	.392	17420	27.0	18	-N				30	.3	
CULG	26	0716	0724	0754	S27	E09	.392	17420	27.0	38	-N		C	0724	180	2.0	
LEAR	26	0721	0721	0734	S27	E11	.405	17420	27.1	13	-F	3	C		24		
YUNN	26	0721	0721	0724	S26	E08	.372	17420	26.9	3	-N		C		32	.4	
GRP91460	26	0734>9	0754 0813+3	0834	S06	W05	.087	17421	25.9	60	-N						K
CULG	26	0734	0816	0834D	S08	W06	.112	17421	25.9	60D	1N		P	0816	320	3.2	FK
LEAR	26	0753	0754	0804	S08	W05	.096	17421	26.0	11	-F	3	C		56		
LEAR	26	0812	0813	0825	S05	W02	.036	17421	26.2	13	-F	3	C		54		
PEKG	26	0812	0822E	0822D	S04	W03	.059	17421	26.1	10D	-N		P	0822	21	.2	D
HTPR	26	0826E		0920	S06	W07	.122	17421	25.8	54D	1N		C	0827	250		
GRP91461	26	0915+7	0924+1	0935	S15	E77	.970	17428	1.2	20	-N				30		
LEAR	26	0915	0925	0954	S15	E79	.978	17428	1.3	39	-N	3	C				
YUNN	26	0920	0925	0929	S15	E76	.966	17428	1.1	9	-N		C		16		
HTPR	26	0922	0924	0935	S13	E77	.971	17428	1.2	13	-B		C	0924	40		
GRP91462	26	1014	1015	1024	S14	E76	.966	17428	1.1	10	-B						
HTPR	26	1014	1015	1022	S13	E77	.971	17428	1.2	8	-B		C	1015	60	1.4	
YUNN	26	1016E		1025	S15	E75	.962	17428	1.1	9D	-N		C		48		
463 HTPR	26	1023	1028	1031	S06	W09	.156	17421	25.8	8	-F		C	1028	60	.6	E
GRP91464	26	1025	1036+1	1049D	S16	E41	.663	17425	29.5	24	-N						
HTPR	26	1025	1037	1330	S17	E36	.602	17425	29.1	185	1N		C	1037	320	3.9	
KANZ	26	1031E	1036	1049	S16	E47	.734	17425	30.0	18D	-F	2					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Area Measurement Appar (Disk)	Area Measurement Corr (Sq Deg)	Remarks
465 HTPR	26	1104	1107	1111	S14	E75	.962	17428	1.1	7	-N	C	1107	60		
466 HTPR	26	1116	1119	1122	N11	W14	.369	17417	25.4	6	-N	C	1119	10	.1	
GRP91467	26	1123+2	1128	1138	S12	E76	.967	17428	1.2	15	1B					E
KANZ	26	1123	1126	1126D	S12	E77	.971	17428	1.2	3D	-N 2					
HTPR	26	1125	1128	1138	S13	E76	.967	17428	1.2	13	1B	C	1128	100		E
GRP91468	26	1220	1230 1244+0	1301	S09	W08	.150	17418	25.9	41	-N					EK
HTPR	26	1220	1230	1300	S07	W05	.090	17418	26.1	40	-N	C	1235	70	.7	EK
HTPR	26	1242	1244	1251	S12	W12	.233	17418	25.6	9	-F	C	1244	40	.4	E
KANZ	26	1244E	1244	1301	S08	W08	.145	17418	25.9	17D	-N 2					
469 KANZ	26	1316	1320	1324	N17	E90	1.000	17429	2.3	8	-F 2					
470 HTPR	26	1429	1430	1435	S27	W15	.435	17414	25.5	6	-F	C	1430	60	.7	E
GRP91471	26	1435+4	1444+0	1455	S12	E76	.967	17428	1.3	20	-B					E
HTPR	26	1435	1444	1455	S13	E74	.957	17428	1.2	20	1B	C	1444	130		E
KANZ	26	1439	1444	1455	S12	E79	.979	17428	1.5	16	-B 2					
472 HTPR	26	1451	1459	1520	S26	E06	.362	17420	27.1	29	-F	C	1459	20	.2	E
473 HTPR	26	1513	1517	1530	S08	W08	.145	17418	26.0	17	-F	C	1517	90	.9	E
474 HOLL	26	1708	1719	1800	S14	E75	.962	17428	1.3	52	-B 3 C					
475 HOLL	26	1712	1715	1744	S14	E50	.765	17426	30.5	32	-F 3 C			43		
476 HOLL	26	1713	1714	1720	S05	W13	.224	17421	25.7	7	-F 3 C			21		
477 HOLL	26	1914	1917	1924	S14	E71	.941	17428	1.1	10	-B 3 C			33		
478 HOLL	26	1949	2006	2056	S13	E71	.941	17428	1.2	67	-N 3 C			71		
479 CULG	26	2029	2041	2103	S23	E53	.808		30.8	34	-F	C	2041	100	1.7	
480 HOLL	26	2105	2107	2117	S14	E72	.947	17428	1.3	12	-N 3 C			28		
GRP91481	26	2131+2	2135+1	2208	S19	E26	.480	17425	28.8	37	-N			140	1.6	
CULG	26	2131	2135	2213	S20	E26	.486	17425	28.8	42	-N	C	2135	140	1.6	
HOLL	26	2133	2136	2202	S19	E26	.480	17425	28.8	29	-N 3 C			146		
482 CULG	26	2150	2152	2157	S18	E90	1.000	17435	2.7	7	?F	C	2152	50		T
			IMP.1 NO : HOLL													
GRP91483	26	2159	2239 2305	2313	S14	E71	.941	17428	1.2	74	1N			130		
HOLL	26	2159	2304	2304D	S14	E70	.935	17428	1.2	65D	1N 3 C			110		
CULG	26	2217U	2239U	2252U	S15	E72	.947	17428	1.3	35D	-F	C	2239	80		T
CULG	26	2300	2305	2313	S15	E73	.952	17428	1.4	13	1N	C	2305	160		T
484 CULG	26	2317	2319	2345	S15	E72	.947	17428	1.4	28	-F	C	2319	40		T
485 CULG	26	2353	2354	0000	S14	E63	.887	17428	31.7	7	-F	C	2354	20		T
486 CULG	27	0000	0002	0012	S13	E71	.941	17428	1.3	12	?N	C	0002	80		T
			IMP.1 NO : HOLL MITK VORO													
GRP91487	27	0042>9	0053+6	0112	S20	E28	.512	17425	29.1	30	-F			60	.7	EJ
PEKG	27	0042	0059	0120	S19	E29	.519	17425	29.2	38	-F	P	0059	50	.6	E
CULG	27	0046	0058	0118U	S21	E27	.505	17425	29.1	32D	-N	C	0058	90	1.0	
YUNN	27	0051	0053	0105	S20	E27	.499	17425	29.1	14	-N	C		32	.4	
VORO	27	0053	0054	0106	S20	E29	.524	17425	29.2	13	-F	C	0054	72	.8	EJ
488 CULG	27	0057	0102	0108	S11	E45	.705	17426	30.4	11	-F	C	0102	40	.6	
489 PEKG	27	0130	0134	0147	S11	E90	1.000	17436	2.8	17	-F	P	0134	13		AD
490 CULG	27	0209	0218	0256	N18	W66	.935	17409	22.1	47	?F	C	0218	180		
			IMP.1 NO : MITK VORO YUNN PEKG													

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp		Obs Type	Area Time (UT)	Measurement Appar (Disk)	Corr (Sq Deg)	Remarks
491 PEKG	27	0248	0250	0313	S13	E71	.941	17428	1.4	25	-N		P	0250	25		D
GRP91492	27	0305+7	0315+1	0333	S20	E26	.486	17425	29.1	28	-F				90	1.0	E
CULG	27	0305	0316	0328	S21	E26	.493	17425	29.1	23	-F		C	0316	100	1.2	
PEKG	27	0312	0315	0338	S20	E27	.499	17425	29.2	26	-F		P	0317	84	1.0	E
GRP91493	27	0341	0346 0402+1	0410	S14	E70	.935	17428	1.4	29	-N				30		D
CULG	27	0341	0346	0359	S14	E71	.941	17428	1.5	18	-F		C	0346	30		T
YUNN	27	0345E		0550	S14	E71	.941	17428	1.5	125D	-N		P		16		D
PEKG	27	0358	0403	0410	S13	E69	.929	17428	1.3	12	-N		P	0403	21		D
CULG	27	0400	0402	0408	S14	E70	.935	17428	1.4	8	-F		C	0402	40		T
GRP91494	27	0524+9	0535+4	0546	S14	E69	.929	17428	1.4	22	1N				120		E
CULG	27	0524U	0539	0600	S15	E70	.935	17428	1.5	36D	1N		C	0539	120		T
PEKG	27	0532	0535	0547	S13	E69	.929	17428	1.4	15	1B		P	0540	84		E
MITK	27	0533	0538	0545	S14	E70	.935	17428	1.5	12	1N		C	0538	170		E
YUNN	27	0535E		0545	S14	E68	.923	17428	1.3	10D	2B		P		321		T
GRP91495	27	0547+6	0558+1	0615	S20	E25	.473	17425	29.1	28	-B						E
CULG	27	0547	0559	0616	S21	E25	.480	17425	29.1	29	-B		C	0559	160	1.8	
PEKG	27	0552	0559	0630	S19	E26	.479	17425	29.2	38	-B		P	0559	160	1.9	E
YUNN	27	0553	0559	0605	S20	E24	.460	17425	29.0	12	1B		C		241	2.8	
MITK	27	0553	0558	0613	S21	E26	.493	17425	29.2	20	-N		C	0558			E
496 CULG	27	0707	0717	0740	S08	W14	.244	17418	26.2	33	-N		C	0717	100	1.0	
497 CULG	27	0712	0719	0736	S20	E21	.422	17425	28.9	24	-N		C	0719	130	1.4	F
498 KANZ	27	0906	0909	0913	N11	W23	.474	17417	25.7	7	-F	2					
499 LEAR	27	0910	0910	0918	N09	W77	.979		21.6	8	-F	3	C				
500 KANZ	27	0943	0943	1000	N11	W26	.511	17417	25.5	17	-F	2					
GRP91501	27	0950+3	0956+4	1005	S12	E86	.996	17436	2.9	15	-N						
WEND	27	0920E		1012D	S12	E86	.996	17436'	2.8	52D	-N	*	C	0929	44		
CATA	27	0950	1000	1005D	S13	E90	1.000	17436	3.2	15D	1F	*	P	1000	45		
KANZ	27	0953	0956	1004	S11	E80	.982	17436	2.4	11	-N	*					
GRP91502	27	1004+2	1006+1	1010	S16	E64	.895	17428	1.2	6	-F				30	.7	E
HTPR	27	1004	1006	1008	S15	E64	.895	17428	1.2	4	-F		C	1006	20	.5	E
WEND	27	1006	1007	1012	S17	E64	.895	17428	1.2	6	-N		C	1007	38		
GRP91503	27	1039+0	1039+2	1043	S13	E65	.902	17428	1.3	4	-F						
HTPR	27	1039	1041	1043	S13	E66	.909	17428	1.4	4	-F		C	1041	10	.2	
KANZ	27	1039	1039	1043	S13	E65	.902	17428	1.3	4	-N	2					
GRP91504	27	1115	1125	1140D	N07	W76	.974		21.8	25	-F						
KANZ	27	1115		1250D	N07	W78	.981		21.6	95D	-F	1					
CATA	27	1120E	1125	1140	N08	W75	.970		21.8	20D	-F	1	P	1125	56		
505 KANZ	27	1217	1225	1245	S12	E65	.902	17428	1.4	28	-F	2					
GRP91506	27	1220+3	1221+4	1237	S18	E17	.354	17425	28.8	17	-F				60	.6	E
HTPR	27	1220		1226D	S20	E15	.350	17425	28.6	6D	-F		C	1224	40	.4	E
KANZ	27	1221	1221	1237	S18	E18	.366	17425	28.9	16	-N	2					
WEND	27	1223	1225	1234D	S18	E17	.354	17425	28.8	11D	-F		C	1225	80	.9	
507 HOLL	27	1452	1519	1557	S12	E83	.990	17436	2.8	65	-F	3	C				
GRP91508	27	1537+3	1547	1634	S12	E62	.879	17428	1.3	57	1B				250		I
HTPR	27	1537		1546D	S12	E62	.879	17428	1.3	9D	1B	*	C	1544	220	4.8	EF1
HOLL	27	1540	1547	1634	S13	E63	.887	17428	1.4	54	1B	*	C		288		
509 HOLL	27	1538	1540	1553	S18	E74	.957	17435	2.2	15	?N	3	C				
			IMP.1 NO : HTPR														
510 HOLL	27	1650	1702	1728	S14	E58	.845	17428	1.1	38	-N	3	C		52		

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511 HOLL	27	1734	1743	1744	S14	E56	.826	17428	31.9	10	-F	3 C		15		
512 HOLL	27	1740	1743	1804	S11	E84	.993	17436	3.0	24	-N	3 C				
513 HOLL	27	1816	1833	1834	S18	E78	.974	17435	2.6	18	-F	3 C				
514 HOLL	27	1843	1844	1928	S07	W22	.373	17418	26.1	45	-N	3 C		118		
515 HOLL	27	1853	1858	1902	S17	E77	.970	17435	2.6	9	-F	3 C				
516 HOLL	27	1927	1932	1944	S11	E83	.990	17436	3.0	17	-N	3 C				
	27	1951	1955	NO FLARE PATROL												
	27	2026	2042	NO FLARE PATROL												
	27	2048	2100	NO FLARE PATROL												
517 CULG	27	2104	2116	2119D	S28	W26	.549	17414	25.9	15D	-F	P	2116	20	.2	
518 CULG	27	2113	2118	2119D	S13	E34	.564	17426	30.4	6D	-N	P	2118	70	.8	
	27	2120	2122	NO FLARE PATROL												
519 HOLL	27	2128	2129	2138	N15	E74	.971	17429	2.4	10	-F	3 C				
520 HOLL	27	2211	2213	2222	S11	E79	.979	17436	2.8	11	-F	3 C				
521 CULG	27	2211	2213	2227	S10	W32	.530	17418	25.5	16	-F	C	2213	20	.2	
522 CULG	27	2217	2222	2308	S23	E39	.661		30.9	51	-N	C	2222	100	1.3	GF
GRP91523	27	2244>9	2317+0	2328	S11	E77	.971	17436	2.7	44	-B					
HOLL	27	2244	2317	2330	S11	E77	.971	17436	2.7	46	-B	3 C				
CULG	27	2309	2317	2326	S12	E78	.975	17436	2.8	17	-B	C	2317	40		
524 CULG	27	2329	2332	2338	S10	W34	.558	17418	25.4	9	-F	C	2332	20	.2	
525 CULG	27	2351	2356	0008	S09	E60	.862	17428	1.5	17	-F	C	2356	70	1.4	
526 CULG	28	0040	0052	0104	N18	W38	.699	17413	25.2	24	-F	C	0052	60	.8	G
527 PEKG	28	0055	0058	0103	S27	W29	.572	17414	25.9	8	-F	P	0058	13	.2	D
GRP91528	28	0139+1	0140+5	0156	S14	E75	.962	17435	2.7	17	-N			40		
LEAR	28	0139	0140	0157	S17	E74	.957	17435	2.6	18	-N	3 C		49		
YUNN	28	0140	0145	0155	S12	E77	.971	17435	2.8	15	-N	C		32		
GRP91529	28	0140+4	0140 0147	0154	S12	E56	.825	17428	1.3	14	-N			30	.5	D
PURP	28	0106	0120	0150	S12	E56	.825	17428	1.2	44	1N	* C				
YUNN	28	0140	0140	0145E	S12	E60	.862	17428	1.6	5D	-N	* C		32	.4	D
LEAR	28	0144	0147	0157	S13	E56	.825	17428	1.3	13	-F	* C		30		
GRP91530	28	0200+5	0206 0215+7	0310	S13	E54	.806	17428	1.1	70	1N			200	3.4	HJKW
VORO	28	0140	0222	0315	S13	E55	.816	17428	1.2	95	2N	* C	0222	296	5.3	HJK
MITK	28	0200	0219	0311	S13	E53	.796	17428	1.1	71	1N	* C	0219	210	3.5	E
PEKG	28	0203	0215	0246	S12	E54	.805	17428	1.1	43	1B	* C	0218	139	2.4	EFK
YUNN	28	0204	0206	0305	S13	E52	.785	17428	1.0	61	1N	* C		161	2.6	EFKW
LEAR	28	0205	0215	0309	S13	E54	.806	17428	1.1	64	1B	* C		196		D
CULG	28	0207E	0217	0310	S13	E54	.806	17428	1.1	63D	1N	* C	0217	200	3.2	TF
PURP	28	0309	0311	0358	S13	E59	.853	17428	1.6	49	2B	* C	0311	415	7.5	W
531 CULG	28	0239	0247	0312	N23	E00	.480	17422	28.1	33	-F	C	0247	80	.9	
532 CULG	28	0300	0303	0309	S11	W36	.588	17418	25.4	9	-F	C	0303	30	.4	
GRP91533	28	0300>9	0304 0316+0	0330	S13	E74	.957	17436	2.7	30	-N			35		AHJK
CULG	28	0300	0304	0318	S20	E70	.935	17436	2.4	18	-F	C	0304	40		FK
VORO	28	0301	0316	0330	S13	E75	.962	17436	2.8	29	-N	C	0316	45		DHJK
YUNN	28	0310	0316	0333	S13	E74	.957	17436	2.7	23	-N	C		16		AW

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GRP91534	28	0334		0354	S11	E77	.971	17436	2.9	20	-N				50		DJ
VORO	28	0334		0359	S10	E78	.975	17436	3.0	25	1F		P	0337	72		DJ
YUNN	28	0339E	0339	0348	S12	E76	.967	17436	2.9	9D	-N		C		32		
535 CULG	28	0343	0349	0402	N11	W34	.612	17417	25.6	19	-F		C	0349	40	.5	
536 CULG	28	0347	0352	0409U	S29	W30	.597	17414	25.9	22D	-N		C	0352	80	1.0	T
537 CULG	28	0410	0413	0423	N09	W30	.549	17417	25.9	13	-F		C	0413	20		
GRP91538	28	0410+4	0413+3 0511	0522	S13	E55	.816	17428	1.3	72	1B				250	4.4	KVZ
CULG	28	0410	0413	0537	S14	E56	.826	17428	1.4	87	1B	*	C	0413	250	4.5	TV
MITK	28	0412		0517	S12	E57	.835	17428	1.4	65	1N	*	C	0413	190	3.4	E
YUNN	28	0414	0416	0532	S13	E54	.806	17428	1.2	78	2B	*	C		643	11.3	FK
PEKG	28	0425E	0425	0501	S13	E55	.816	17428	1.3	36D	1B	*	P	0425	143	2.6	EFZ
PURP	28	0510	0511	0517D	S13	E55	.816	17428	1.3	7D	1N	*	C				
539 CULG	28	0416	0423	0427D	S18	E75	.961	17435	2.8	11D	-F		P	0423	30		
540 ABST	28	0600E	0601	0605D	S11	E79	.979	17436	3.2	5D	?N		P	0601	87		DJ
		IMP.1 NO : LEAR PURP YUNN PEKG MITK C															
GRP91541	28	0605+6	0611+6	0633	S14	E55	.816	17428	1.4	28	1N						EJ
PEKG	28	0605E	0617	0630	S14	E55	.816	17428	1.4	25D	-N		C	0617	42	.8	E
CULG	28	0609	0613	0639	S14	E55	.816	17428	1.4	30	1N		C	0613	120	2.0	T
ABST	28	0610E	0617	0633D	S17	E57	.837	17428	1.5	23D	1N		P	0617	113	2.1	EJ
YUNN	28	0611	0611	0624	S13	E53	.796	17428	1.2	13	-B		C		48	.9	E
LEAR	28	0611	0613	0637	S13	E54	.806	17428	1.3	26	1N	3	C		165		
542 CULG	28	0614	0617	0623	S18	E74	.957	17435	2.8	9	-F		C	0617	30		
543 CULG	28	0705E	0707	0724	S13	E57	.835	17428	1.6	19D	-N		P	0707	80	1.4	T
GRP91544	28	0733+4	0741+6	0753	N13	E67	.934	17429	2.3	20	-N						DJ
ABST	28	0733	0741	0753	N13	E69	.946	17429	2.5	20	1N		C	0741	96		DJ
LEAR	28	0737	0747	0753	N13	E66	.928	17429	2.3	16	-F	3	C		20		
545 YUNN	28	0840	0844	0847	S13	E74	.957	17436	2.9	7	-F		C		64		
546 HTPR	28	1050	1052	1110	N12	W40	.689	17417	25.5	20	-F		C	1052	30	.4	E
GRP91547	28	1406+2	1415+4	1428	S12	E50	.763	17428	1.3	22	-F						E
KANZ	28	1406	1415	1430	S11	E49	.751	17428	1.3	24	-F	3					
HTPR	28	1408	1419	1426	S13	E51	.775	17428	1.4	18	-F		C	1419	30	.5	E
	28	1454	1543	NO FLARE PATROL													
548 HOLL	28	1544	1556	1642	S16	E73	.952	17436	3.1	58	1B	2	C				
549 HOLL	28	1612	1614	1619	N13	E63	.909	17429	2.4	7	-F	3	C		26		
550 HOLL	28	1702	1722	1731	S13	E46	.718	17428	1.2	29	-F	3	C		42		
	28	1732	1806	NO FLARE PATROL													
551 HOLL	28	1809	1831	1859	S14	E50	.764	17428	1.5	50	-N	3	C		67		
552 HOLL	28	1810	1812	1831	S27	W37	.658	17414	26.0	21	-F	3	C		33		
	28	2038	2100	NO FLARE PATROL													
553 CULG	28	2101E	2106	2119	S11	W46	.717	17418	25.4	18D	-N		P	2106	40	.6	
	28	2121	2123	NO FLARE PATROL													
554 HOLL	28	2151	2156	2229	N12	W45	.745	17417	25.5	38	-N	3	C		98		
555 HOLL	28	2154	2154	2208	S13	E45	.706	17428	1.3	14	-F	3	C		28		
556 HOLL	28	2212	2213	2229	S13	E44	.694	17428	1.2	17	-F	3	C		33		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
557 CULG	28	2333U	2335	2346	S16	E65	.902	17435	2.9	13D	?N	P	2335	100	2.4	
			IMP.1 NO : HOLL													
	28	2358	0000	NO FLARE PATROL												
GRP91558	29	0021+2	0025+6	0056	S12	E45	.705	17428	1.4	35	-N			90	1.3	EJK
PEKG	29	0021	0025	0038	S12	E45	.705	17428	1.4	17	-N	P	0026	55	.8	E
CULG	29	0023	0027	0114U	S12	E44	.693	17428	1.3	51D	-N	C	0027	130	1.8	FKT
MITK	29	0030E	0031	0046	S12	E47	.729	17428	1.5	16D	-N	C	0031			E
VORO	29	0031E		0105	S14	E46	.719	17428	1.5	34D	1N	P	0058	152	2.2	EJK
559 CULG	29	0052	0057	0102	N11	W48	.773	17417	25.4	10	-F	C	0057	40	.6	
560 VORO	29	0054	0117	0131	S12	W51	.774	17418	25.2	37	-N	C	0117	90	1.5	DJK
561 CULG	29	0155	0158	0209	N11	W47	.763	17417	25.6	14	-F	C	0158	40	.6	
GRP91562	29	0220>9	0246 0253	0324	S12	E38	.616	17428	31.9	64	-N					JK
CULG	29	0220	0253	0334U	S12	E39	.629	17428	1.0	74D	-N	C	0253	80	1.0	
VORO	29	0233	0246	0314	S12	E38	.616	17428	1.0	41	-N	C	0246	116	1.5	JK
563 LEAR	29	0313	0314	0318	N10	W47	.759	17417	25.6	5	-F	3 C		21		
564 MITK	29	0408	0414	0426	N10	E90	1.000	17441	4.9	18	?N	C	0414	110		H
			IMP.1 NO : YUNN													
GRP91565	29	0409	0412+0	0419	S12	E41	.655	17428	1.2	10	-N					E
LEAR	29	0409	0412	0417	S12	E43	.681	17428	1.4	8	-N	3 C		60		
YUNN	29	0412E	0412	0420	S13	E40	.644	17428	1.2	8D	1N	P		161	2.2	E
GRP91566	29	0436+6	0445+4	0500	S16	E57	.836	17435	2.5	24	-F			80	1.5	E
LEAR	29	0436	0445	0508	S17	E58	.846	17435	2.5	32	-F	3 C		80		
PEKG	29	0440	0448	0500	S16	E57	.836	17435	2.5	20	-N	C	0448	59	1.1	E
CULG	29	0442	0445	0448U	S18	E58	.846	17435	2.5	6D	-F	C	0445	80	1.4	F
YUNN	29	0444E	0449	0459	S16	E56	.827	17435	2.4	15D	1N	P		193	3.6	E
567 YUNN	29	0456	0459	0509	N13	E55	.846	17429	2.3	13	-N	C		16	.3	
GRP91568	29	0530+2	0532+1	0550	S12	E43	.681	17428	1.5	20	-F			40	.6	E
PEKG	29	0530	0533	0550	S12	E43	.681	17428	1.5	20	-F	C	0532	34	.5	E
YUNN	29	0532	0532	0536E	S13	E43	.682	17428	1.5	4D	-N	P		48	.7	
569 YUNN	29	0701	0705	0709	N17	E53	.840	17429	2.3	8	-N	C		32	.7	
GRP91570	29	0734+0	0734+0	0743	S12	E41	.655	17428	1.4	9	-F					
KANZ	29	0734	0734	0746	S12	E42	.668	17428	1.5	12	-F	2				
CULG	29	0734	0734	0740	S12	E41	.655	17428	1.4	6	-N	C	0734	60	.8	
GRP91571	29	0744+4	0747+3	0754	S14	E59	.853	17435	2.7	10	-N			70	1.4	DJ
ABST	29	0744	0747	0753	S14	E60	.862	17435	2.8	9	1N	C	0747	105	2.1	DJ
CULG	29	0746	0749	0753	S15	E60	.862	17435	2.8	7	-B	C	0749	60	1.1	
KANZ	29	0746	0750	0754	S13	E58	.844	17435	2.7	8	-N	2				
LEAR	29	0746	0749	0755	S14	E58	.844	17435	2.7	7	-B	3 C		30		
YUNN	29	0751E	0751	0756E	S16	E58	.845	17435	2.7	5D	-N	P		80	1.1	
GRP91572	29	0750+3	0754+4	0812	S13	E42	.669	17428	1.5	22	-N			40	.5	DJK
ABST	29	0732	0754	0813	S13	E41	.657	17428	1.4	41	-N	* C	0813	96	1.3	DJK
KANZ	29	0750	0754	0813	S12	E42	.668	17428	1.5	23	-N	*				
YUNN	29	0751D	0756	0810	S13	E42	.669	17428	1.5	19D	-N	* P		32	.4	
LEAR	29	0753	0758	0810	S13	E42	.669	17428	1.5	17	-N	* C		44		
CULG	29	0754U	0754U	0802D	S12	E41	.655	17428	1.4	8D	-N	* P	0754	40	.5	
573 YUNN	29	0837	0838	0844E	S28	W46	.753	17414	25.9	7D	-N	P		32	.5	
GRP91574	29	0838+8	0852+2	0901	S13	E39	.631	17428	1.3	23	-F			40	.5	
YUNN	29	0838	0854	0902	S14	E39	.632	17428	1.3	24	-N	C		48	.7	
HTPR	29	0846	0852	0900	S12	E40	.642	17428	1.4	14	-F	C	0852	30	.4	
575 YUNN	29	1025	1030	1032	S13	E37	.604	17428	1.2	7	-N	C		113	1.4	

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs	Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP91576	29	1030+2	1034+0	1042	S27	W49	.779	17414	25.8	12	-N				40	.7	
KANZ	29	1030	1034	1112	S28	W49	.782	17414	25.8	42	-N	2					
HTPR	29	1030	1034	1044	S25	W50	.783	17414	25.7	14	-F		C	1034	40	.6	
YUNN	29	1032	1033	1033D	S28	W48	.772	17414	25.8	1D	1N		P		161	2.7	
WEND	29	1035E	1035	1040	S26	W50	.785	17414	25.7	5D	-F		C	1035	37	.7	
GRP91577	29	1202+2	1209+0	1218	S25	W50	.783	17414	25.8	16	-F						D
HTPR	29	1202	1209	1215	S25	W50	.783	17414	25.8	13	-F		C	1209	30	.5	
LVOV	29	1204	1209	1220	S25	W50	.783	17414	25.8	16	1F		C	1209	200	3.2	D
GRP91578	29	1252+1	1254+2	1301	S12	E38	.616	17428	1.4	9	-F						
HTPR	29	1252E		1303	S12	E36	.589	17428	1.2	11D	-F		C	1255	50	.6	E
LVOV	29	1253	1256	1301	S12	E38	.616	17428	1.4	8	-F		C	1256	100	1.3	D
WEND	29	1253	1254	1300	S13	E40	.644	17428	1.5	7	-F		C	1254	18	.2	
579 HTPR	29	1327	1329	1332	S26	W52	.804	17414	25.7	5	-F		C	1329	20	.3	
580 HTPR	29	1337	1347	1415	S17	E52	.788	17435	2.5	38	-F		C	1347	50	.8	E
581 HTPR	29	1408	1411	1420	S27	W36	.646	17420	26.9	12	-F		C	1411	10	.1	
GRP91582	29	1441+4	1444+3	1457	S12	E36	.589	17428	1.3	16	-N				50	.6	EHL
HTPR	29	1310	1446	1500	S12	E36	.589	17428	1.2	110	-B	*	C	1446	80	1.0	E
KANZ	29	1441	1445	1454	S12	E35	.575	17428	1.2	13	-B	*					L
HOLL	29	1444E	1444U	1450	S13	E36	.591	17428	1.3	6D	-F	*	C		43		
WEND	29	1445	1447	1500	S13	E36	.591	17428	1.3	15	-N	*	C	1447	38	.5	H
GRP91583	29	1445+4	1445+5	1456	S26	W52	.804	17414	25.7	11	-N				40	.7	E
KANZ	29	1445	1445	1454	S28	W50	.791	17414	25.9	9	-B	2					
HTPR	29	1445	1447	1504	S26	W52	.804	17414	25.7	19	-N	*	C	1447	60	1.0	E
HOLL	29	1447E	1450	1453	S27	W52	.806	17414	25.7	6D	-F	*	C		34		
WEND	29	1449	1450	1457	S26	W53	.813	17414	25.6	8	-N	*	C	1450	31	.6	E
	29	1615	1636	NO FLARE PATROL													
584 VORO	30	0010	0011	0013	S12	E32	.532	17428	1.4	3	-F		C	0011	81	1.0	E
GRP91585	30	0117+1	0118+1 0129	0137	N13	E43	.728	17429	2.3	20	-N				80	1.1	EKL
VORO	30	0117	0119	0133	N13	E43	.728	17429	2.3	16	-F		C	0119	116	1.7	KL
PEKG	30	0117	0119	0139	N13	E43	.728	17429	2.3	22	-N		C	0119	38	.6	E
LEAR	30	0118E	0118U	0139	N15	E41	.715	17429	2.1	21D	-N	3	C		78		
MITK	30	0118	0118	0138	N13	E43	.728	17429	2.3	20	-N		C	0118			E
YUNN	30	0124D	0129	0134	N13	E43	.728	17429	2.3	10D	-N		P		80	1.2	
586 PEKG	30	0134	0144	0204	S19	E09	.272	17432	30.7	30	-B		C	0146	46	.7	E
GRP91587	30	0137+5	0143+2	0205	S18	E47	.736	17435	2.6	28	-F				70	1.1	D
LEAR	30	0137	0144	0207	S19	E47	.738	17435	2.6	30	-F	3	C		116		
YUNN	30	0139D	0144	0203	S18	E48	.747	17435	2.7	24D	-N		P		64	1.0	
VORO	30	0140	0143	0208	S18	E48	.747	17435	2.7	28	-F		C	0143	90	1.4	D
PEKG	30	0142	0145	0147	S15	E47	.732	17435	2.6	5	-N		C	0146	21	.3	D
588 PEKG	30	0203E	0216	0216D	S09	E01	.057	17426	30.2	13D	-N		P	0215	21	.2	E
589 YUNN	30	0232	0238	0242	S12	E28	.474	17428	1.2	10	-F		C		80	.8	
GRP91590	30	0310+5	0315+0	0325	S18	E54	.809	17436	3.2	15	-N						
YUNN	30	0310D	0315	0325	S18	E54	.809	17436	3.2	15D	-N		P		96	1.7	
LEAR	30	0315	0315	0326	S19	E55	.820	17436	3.3	11	-N	3	C		29		
GRP91591	30	0325+2	0330+0	0340	S17	E53	.798	17436	3.1	15	-N						EJ
YUNN	30	0325	0330	0335	S18	E52	.789	17436	3.0	10	1N		P		193	3.2	
VORO	30	0327	0330	0344	S17	E54	.808	17436	3.2	17	-N		C	0330	81	1.4	EJ
GRP91592	30	0328+2	0328+4	0345	N14	E41	.710	17429	2.2	17	-F				35	.5	E
LEAR	30	0328	0328	0349	N15	E40	.705	17429	2.1	21	-F	3	C		22		
VORO	30	0330	0332	0340	N13	E42	.717	17429	2.3	10	-F		C	0332	45	.7	E
593 CULG	30	0405U	0407	0425	N16	E38	.688	17429	2.0	20D	-F		C	0407	20	.3	H

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Time (UT)	Measurement Appar (Disk)	Measurement Corr (Sq Deg)	Remarks
GRP91594	30	0449+8	0505+4	0535	S12	E28	.474	17428	1.3	46	-N			50	.6	E
YUNN	30	0449	0505	0530	S12	E27	.459	17428	1.2	41	-N	C		96	1.1	
MITK	30	0455	0505	0534	S13	E29	.492	17428	1.4	39	-N	C	0505			E
LEAR	30	0457	0507	0527	S12	E27	.459	17428	1.2	30	-N	3 C		48		
PEKG	30	0501E	0505	0542	S11	E27	.457	17428	1.2	41D	-N	C	0501	50	.6	E
PEKG	30	0501E	0519	0519D	S11	E27	.457	17428	1.2	18D	-N	C				
CULG	30	0508U	0509	0554	S12	E29	.489	17428	1.4	46D	-N	C	0509	40	.5	
595 CULG	30	0539	0544	0602	S18	E43	.690	17435	2.5	23	-F	C	0544	100	1.4	T
596 CULG	30	0550	0557	0612	S08	E59	.853	17436	3.7	22	?N	C	0557	120	2.3	G
		IMP.1 NO : MITK LEAR YUNN PEKG														
597 YUNN	30	0644	0648	0652	S13	E28	.477	17428	1.4	8	-F	C		32	.4	E
GRP91598	30	0700+3	0702+4	0709	N17	E35	.662	17429	1.9	9	-N			35	.5	DHJ
ABST	30	0700	0702	0709	N18	E35	.564	17429	1.9	9	-N	C	0702	96	1.2	DJ
YUNN	30	0700D	0704	0706	N16	E34	.645	17429	1.8	6D	-N	P		32	.4	
PEKG	30	0702	0704	0715	N17	E35	.662	17429	1.9	13	-N	C	0704	17	.2	D
LEAR	30	0703	0706	0709	N16	E34	.645	17429	1.8	6	-F	3 C		39		
MITK	30	0704E		0710	N17	E35	.654	17429	1.9	6D	-N	C	0704			DH
GRP91599	30	0718+2	0718+4 0728+4	0741	S12	E25	.429	17428	1.2	23	-N					EJ
YUNN	30	0718	0718	0737	S12	E26	.444	17428	1.3	19	-N	C		16	.2	
ABST	30	0719E	0722	0744	S11	E27	.457	17428	1.3	25D	-N	P	0722	87	1.0	EJ
LEAR	30	0720	0728	0732	S12	E25	.429	17428	1.2	12	-F	3 C		21		
HTPR	30	0730E	0732	0744	S12	E25	.429	17428	1.2	14D	-F	C	0732	50	.6	E
GRP91600	30	0841+0	0842+3	0853	N33	W57	.917	17419	26.1	12	-F					G
YUNN	30	0841	0842	0852	N32	W54	.897	17419	26.3	11	-N	C		16	.3	
KANZ	30	0841	0845	0853	N34	W60	.935	17419	25.9	12	-F	2				G
GRP91601	30	0848+2	0849+3	0855	S11	E26	.442	17428	1.3	7	-N			30	.3	DJ
ABST	30	0848E	0849	0853D	S13	E27	.462	17428	1.4	5D	-N	P	0849	87	1.0	DJ
KANZ	30	0849	0849	0857	S11	E26	.442	17428	1.3	8	-N	3				D
HTPR	30	0850	0850	0853	S11	E26	.442	17428	1.3	3	-B	C	0850	30	.3	
LEAR	30	0850	0852	0855	S12	E26	.444	17428	1.3	5	-F	3 C		26		
602 HTPR	30	0849	0854	0859	S11	E49	.751	17436	3.0	10	-F	C	0854	20	.3	E
603 HTPR	30	1002	1003	1013	S12	E25	.429	17428	1.3	11	-F	C	1003	20	.2	E
604 HTPR	30	1039	1039	1042	S11	E25	.426	17428	1.3	3	-F	C	1039	10	.1	
GRP91605	30	1120+1	1121+2	1128	S11	E24	.411	17428	1.3	8	-N			30	.3	D
LVOV	30	1120	1122	1127	S09	E24	.407	17428	1.3	7	-F	C	1122	100	1.1	D
WEND	30	1120	1122	1125	S13	E22	.388	17428	1.1	5	-F	C	1122	19	.2	
HTPR	30	1121	1123	1128	S11	E25	.426	17428	1.3	7	-B	C	1123	30	.3	
KANZ	30	1121	1121	1129	S11	E25	.426	17428	1.3	8	-N	2				
606 HTPR	30	1246	1247	1250	N14	E38	.677	17429	2.4	4	-N	C	1247	30	.4	
607 HTPR	30	1315	1316	1318	S17	E40	.652	17435	2.6	3	-N	C	1316	20	.3	E
GRP91608	30	1323+0	1324+0	1327	S12	E46	.717	17436	3.0	4	-F			25	.4	
HTPR	30	1323	1324	1327	S11	E47	.728	17436	3.1	4	-F	C	1324	20	.3	
WEND	30	1323	1324	1326	S13	E46	.718	17436	3.0	3	-F	C	1324	25	.4	
609 WEND	30	1344	1344	1355	S18	E05	.226	17432	30.9	11	-N	C	1344	44	.5	
GRP91610	30	1349+3	1353+3	1401	S11	E23	.396	17428	1.3	12	-N			25	.3	E
KANZ	30	1349	1353	1401	S11	E23	.396	17428	1.3	12	-N	3				
HTPR	30	1352	1356	1402	S11	E24	.411	17428	1.4	10	-N	C	1356	30	.3	E
WEND	30	1352	1353	1401	S13	E23	.403	17428	1.3	9	-N	C	1353	19	.2	E
GRP91611	30	1405+2	1411+2	1419	S11	E23	.396	17428	1.3	14.	-B			35	.4	E
KANZ	30	1405	1413	1420	S11	E23	.396	17428	1.3	15	-N	3				
WEND	30	1405	1411	1418	S13	E23	.403	17428	1.3	13	-B	C	1411	19	.2	E
HTPR	30	1407	1412	1419	S11	E24	.411	17428	1.4	12	-B	C	1414	50	.6	E
HTPR	30	1407	1414	1419	S11	E24	.411	17428	1.4	7D	-B	C				

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91612	30	1424+0	1424+1	1428	N15	E32	.615	17429	2.0	4	-F			20	.2	Z
HTPR	30	1424	1425	1428	N15	E32	.615	17429	2.0	4	-F	C	1425	10	.1	
KANZ	30	1424	1424	1427	N15	E30	.592	17429	1.8	3	-N	3				
WEND	30	1424	1424	1428	N13	E33	.613	17429	2.1	4	-F	C	1424	25	.3	Z
613 HTPR	30	1508	1510	1514	S16	E40	.649	17435	2.6	6	-F	C	1510	20	.3	E
614 HTPR	30	1526	1530	1548	N15	E38	.683	17429	2.5	22	-F	C	1530	30	.4	E
615 HTPR	30	1540	1551	1605	S16	E40	.649	17435	2.7	25	-F	C	1551	10	.1	
616 HTPR	30	1603	1606	1615	S18	W22	.417	17425	29.0	12	-N	C	1606	40	.4	E
617 HTPR	30	1603	1607	1612	S12	E22	.384	17428	1.3	9	-F	C	1607	20	.2	
618 HTPR	30	1603		1616D	N15	E38	.683	17429	2.5	13D	-F	C	1608	20	.3	
	30	1617	2033	NO FLARE PATROL												
	30	2035	2151	NO FLARE PATROL												
619 CULG	30	2152U	2214	2252	S17	E35	.588	17435	2.5	60D	-N	C	2214	80	1.0	
	30	2155	2204	NO FLARE PATROL												
620 CULG	30	2212	2214	2217	N18	E61	.904	17440	4.5	5	-F	C	2214	30	.7	
621 CULG	30	2218	2220	2224	N15	E26	.547	17429	1.9	6	-F	C	2220	30	.4	
GRP91622	31	0056+0	0101+6 0134	0215	S13	W08	.184	17426	30.4	79	-N					EGSU
YUNN	31	0056D	0107	0133	S13	W08	.184	17426	30.4	37D	-N	P		161	1.7	G
MITK	31	0056	0101	0215	S15	W07	.197	17426	30.5	79	-N	C	0101			E
CULG	31	0056	0134	0302	S11	W09	.178	17426	30.4	126	1N	C	0134	210	2.1	USG
623 CULG	31	0330	0332	0344	S18	E33	.565	17435	2.6	14	-N	C	0332	50	.6	
624 CULG	31	0338	0345	0402	S19	W30	.530	17425	28.9	24	-F	C	0345	60	.7	G
625 CULG	31	0346	0351	0401	S22	E28	.522		2.3	15	-F	C	0351	50	.6	
626 CULG	31	0351	0352	0353	N20	E55	.866	17440	4.3	2	-N	C	0352	40	.8	H
GRP91627	31	0453+3	0457+1	0503	S18	E33	.565	17435	2.7	10	-F			35	.4	
CULG	31	0453U	0457	0504	S18	E33	.565	17435	2.7	11D	-F	C	0457	40	.5	
LEAR	31	0456	0458	0502	S18	E33	.565	17435	2.7	6	-F	3 C		34		
628 CULG	31	0754	0757	0806	S15	E20	.369	17428	1.8	12	-F	C	0757	80	.9	
GRP91629	31	0835+3	0836+3	0848	S13	E15	.282	17428	1.5	13	-N			60	.6	E
WEND	31	0835	0836	0848	S13	E15	.282	17428	1.5	13	-N	C	0836	31	.3	E
YUNN	31	0836	0837	0845	S14	E14	.275	17428	1.4	9	-N	C		80	.9	E
HTPR	31	0836	0838	0850	S13	E14	.267	17428	1.4	14	-N	C	0838	50	.5	E
LEAR	31	0836	0839	0903	S14	E15	.289	17428	1.5	27	-N	3 C		68		
KANZ	31	0838	0838	0846	S13	E16	.297	17428	1.6	8	-N	3				
GRP91630	31	0905+0	0905+1	0913	S11	E12	.223	17428	1.3	8	-F			45	.5	D
YUNN	31	0905E	0905	0916	S11	E12	.223	17428	1.3	11D	-N	P		64	.7	D
CATA	31	0905	0905	0915	S11	E13	.239	17428	1.4	10	-F	2 C	0905	68	.7	
HTPR	31	0905	0906	0910	S11	E12	.223	17428	1.3	5	-F	C	0905	20	.2	
WEND	31	0905	0905	0911	S12	E13	.245	17428	1.4	6	-N	C	0905	31	.3	
GRP91631	31	1000+2	1002+1	1008	S12	E12	.230	17428	1.3	8	-N			25	.3	E
WEND	31	1000	1002	1007	S12	E12	.230	17428	1.3	7	-N	C	1002	31	.3	
HTPR	31	1000	1003	1008	S11	E12	.223	17428	1.3	8	-N	C	1003	20	.2	E
KANZ	31	1002	1002	1022	S12	E12	.230	17428	1.3	20	-F	3				

H - ALPHA SOLAR FLARES

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type	Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91632	31	1024+6	1028+3	1040	S11	E12	.223	17428	1.3	16	-N			40	.4	E
MONT	31	1024	1028	1034	S11	E12	.223	17428	1.3	10	-F	C	1028	50		E
HTPR	31	1026	1031	1037	S11	E12	.223	17428	1.3	11	-B	C	1031	40	.4	E
WEND	31	1028	1030	1043	S12	E11	.215	17428	1.3	15	-B	C	1030	38	.4	E
YUNN	31	1030E	1030	1030D	S11	E11	.208	17428	1.3		-N	P		8	.1	
KANZ	31	1030	1030	1045	S12	E12	.230	17428	1.3	15	-N	3				E
CATA	31	1040E	1040	1050	S11	E12	.223	17428	1.3	10D	-F	2 P	1040	68	.7	
633 WEND	31	1127	1127	1131	N16	E25	.546	17429	2.4	4	-F	C	1127	31	.4	
GRP91634	31	1131+4	1135+7	1154	S11	E11	.208	17428	1.3	23	1B			230	2.4	EHKL
WEND	31	1131	1136	1148D	S12	E11	.215	17428	1.3	17D	-B	C	1136	156	1.7	
MONT	31	1131	1135	1145D	S11	E11	.208	17428	1.3	14D	1B	C	1135	350		
KANZ	31	1133	1137	1153	S11	E11	.208	17428	1.3	20	-B	3				L
HTPR	31	1133	1136	1150	S11	E11	.208	17428	1.3	17	-B	C	1136	180	1.8	EK
CATA	31	1135	1135	1155	S11	E11	.208	17428	1.3	20	1F	2 C	1135	281	3.0	H
ATHN	31	1138E	1142	1155	S09	E10	.180	17428	1.2	17D	-B	3 V	1142	95	1.0	
GRP91635	31	1158>9	1201 1211+4	1221	S12	E11	.215	17428	1.3	23	-F					
HTPR	31	1158	1201	1206	S13	E14	.267	17428	1.5	8	-F	C	1201	10	.1	
KANZ	31	1204	1211	1223	S11	E11	.208	17428	1.3	19	-F	3				
WEND	31	1211	1215	1221	S12	E11	.215	17428	1.3	10	-F	C	1215	25	.3	
636 KANZ	31	1234		1321D	S29	W76	.965	17414	25.8	47D	-N	1				
GRP91637	31	1238+0	1241+6	1309	S13	E11	.224	17428	1.4	31	-B			110	1.1	L
KANZ	31	1238	1242	1309	S14	E12	.247	17428	1.4	31	-B	3				FL
HTPR	31	1238	1241	1308	S13	E11	.224	17428	1.4	30	-B	C	1241	100	1.0	E
CATA	31	1240E	1240	1240D	S14	E13	.261	17428	1.5		-F	2 P	1240	112	1.2	
HTPR	31	1240	1241	1306	S13	E05	.150	17428	31.9	26	-N	C	1241	20	.2	
ATHN	31	1244E	1247	1252D	S09	E10	.180	17428	1.3	8D	-B	3 V	1247	64		
WEND	31	1251E		1310	S13	E15	.282	17428	1.7	19D	-F	C	1251	31	.3	
WEND	31	1251E		1312	S14	E07	.184	17428	1.1	21D	-F	C	1251	25	.3	
GRP91638	31	1332+0	1334+1	1342	N20	E67	.944	17443	5.6	10	-F			25		
HTPR	31	1332	1335	1340	N20	E67	.944	17443	5.6	8	-F	C	1335	20	.5	
WEND	31	1332	1334	1344	N20	E67	.944	17443	5.6	12	-N	C	1334	25		
GRP91639	31	1454+4	1458+2	1504	N15	E16	.443	17429	1.8	10	-F			50	.6	E
HTPR	31	1454	1500	1504	N15	E16	.443	17429	1.8	10	-F	C	1500	60	.6	E
KANZ	31	1456	1500	1504	N15	E15	.433	17429	1.7	8	-N	3				
WEND	31	1458	1458	1504D	N13	E18	.439	17429	2.0	6D	-F	C	1458	50	.6	
640 HTPR	31	1528	1528	1600	S15	E34	.568	17436	3.2	32	-B	C	1528	30	.4	
641 HTPR	31	1610	1615	1620	S28	W77	.969	17414	25.9	10	-N	C	1615	60		E
GRP91642	31	1827+0	1829+0	1835	S10	E07	.140	17428	1.3	8	-F			70	.7	
HOLL	31	1827	1829	1834	S11	E07	.149	17428	1.3	7	-F	1 C		76		
BIGB	31	1827	1829	1836	S10	E08	.155	17428	1.4	9	-F	2 C	1829	60	.6	
GRP91643	31	1842+0	1843+0	1849	S10	E07	.140	17428	1.3	7	-F			50	.5	
HOLL	31	1842	1843	1848	S11	E07	.149	17428	1.3	6	-F	3 C		60		
BIGB	31	1842	1843	1849	S10	E08	.155	17428	1.4	7	-F	2 C	1843	50	.5	
GRP91644	31	1925+1	1934+0	1941	S11	E06	.136	17428	1.3	16	-B					
HOLL	31	1925	1934	1941	S11	E06	.136	17428	1.3	16	1B	1 C		287		
BIGB	31	1926	1934	1940	S11	E07	.149	17428	1.3	14	-N	2 C	1934	130	1.4	
GRP91645	31	2003+2	2006+6	2049	N16	E47	.782	17440	4.4	46	-N			110	1.7	
HOLL	31	2003	2012	2050	N16	E47	.782	17440	4.4	47	-N	3 C		117		
BIGB	31	2005	2006	2048	N17	E48	.795	17440	4.4	43	-N	2 C	2006	100	1.5	
646 BIGB	31	2041	2043	2058	S10	E06	.125	17428	1.3	17	-N	2 C	2043	60	.6	
647 CULG	31	2233U	2259	2305	S11	E05	.123	17428	1.3	32D	-N	C	2259	60	.6	H
648 CULG	31	2346	2353	2358	S29	W88	.997	17414	25.4	12	-F	C	2353	10		

H - ALPHA SOLAR FLARES

JANUARY 1981

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Cen Dist	Hale Plage Region	CMP Day	Dur (Min)	Imp	Obs Type		Area Measurement Time (UT)	Appar (Disk)	Corr (Sq Deg)	Remarks
GRP91649	31	2358+1	0001+0	0028	S14	E07	.184	17428	1.5	30	-N						
CULG	31	2358	2401	0037	S13	E08	.184	17428	1.6	39	-B		C	2401	180	1.8	
BIGB	31	2359	2401	0019	S15	E06	.188	17428	1.4	20	-N	2	C	2401	70	.7	

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the H and K lines of Ca II.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

DAILY FLARE INDICES
(Includes all Flares)

JANUARY 1981

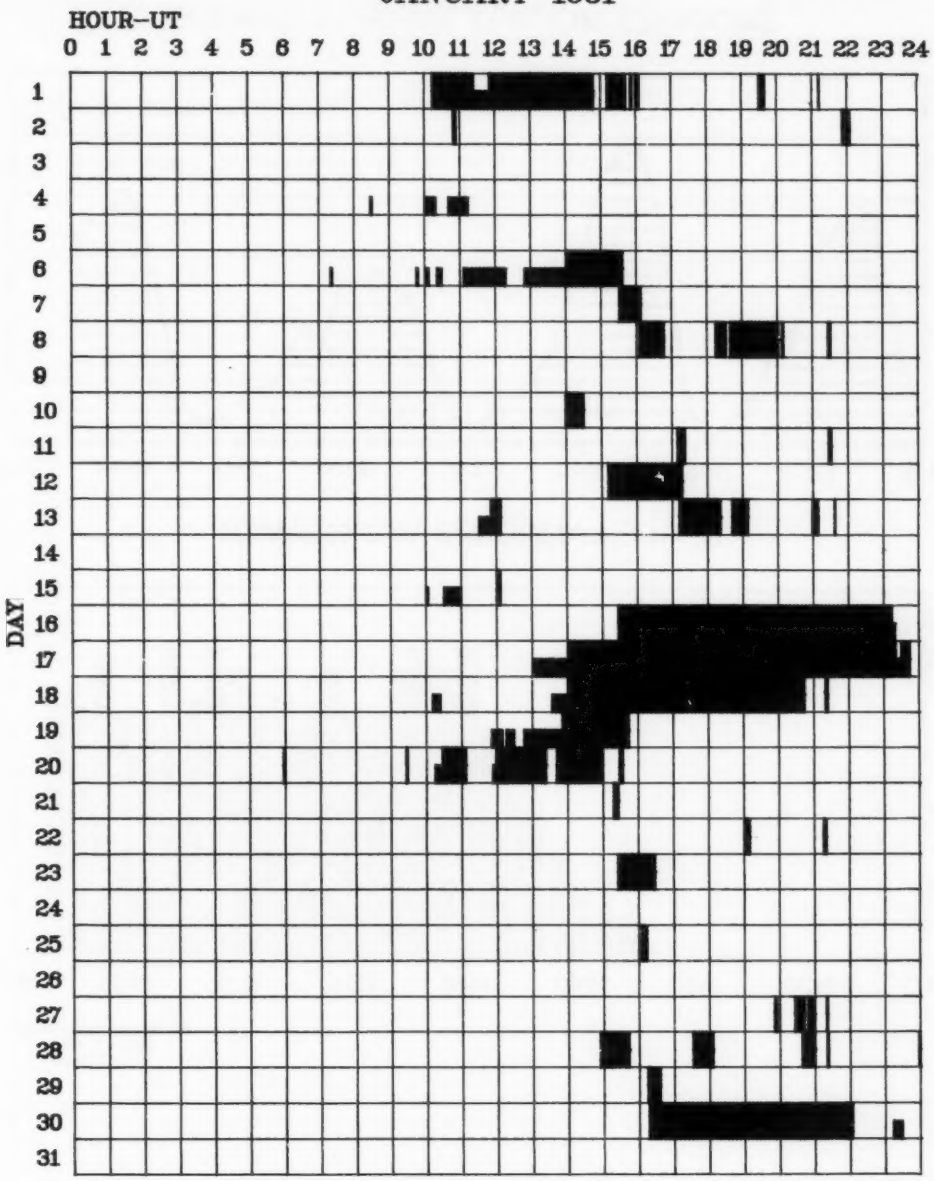
Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed	Day	Flare Index*	Hours Observed
01	38.21	15.6	11	336.14	23.7	21	21.39	23.9
02	14.21	23.7	12	52.53	21.9	22	46.70	23.8
03	53.52	24.0	13	36.56	21.9	23	59.24	22.9
04	26.23	24.0	14	74.15	24.0	24	103.79	24.0
05	30.10	24.0	15	67.61	23.9	25	78.76	23.8
06	25.33	22.4	16	35.33	16.2	26	156.60	24.0
07	68.84	23.4	17	24.82	14.4	27	110.20	23.4
08	122.44	21.5	18	19.49	17.2	28	120.72	22.2
09	77.42	24.0	19	14.33	22.1	29	52.09	23.6
10	60.47	23.5	20	6.55	20.5	30	117.99	18.3
						31	108.25	24.0

*When no flare index is given, it is zero for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

JANUARY 1981



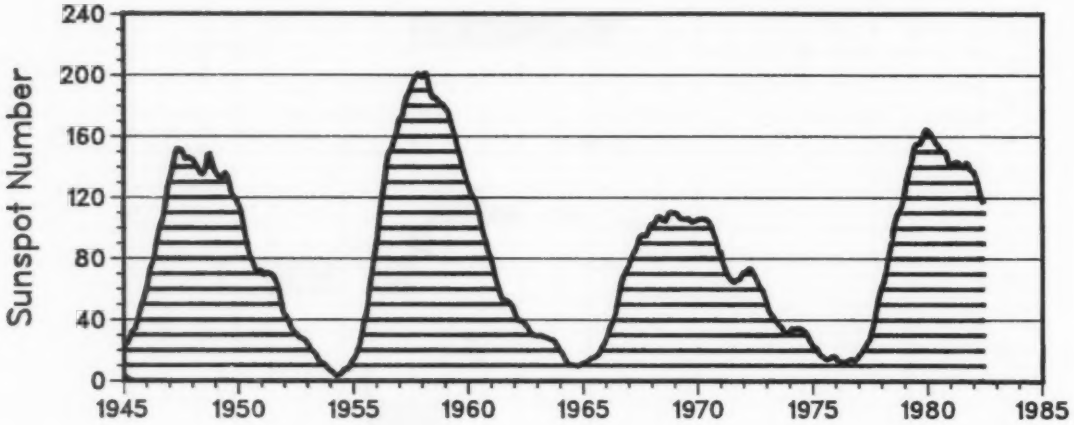
Observatories included in total patrol:

Abastumani	Culgoora	Kharkov	Mitaka	Ramey
Athens	Haute Provence	Learmonth	Monte Mario	Tashkent
Big Bear	Holloman	Lvov	Palehua	Voroshilov
Catania	Kanzelhoehe	Manila	Peking	Wendelstein
			Purple Mt.	Yunnan

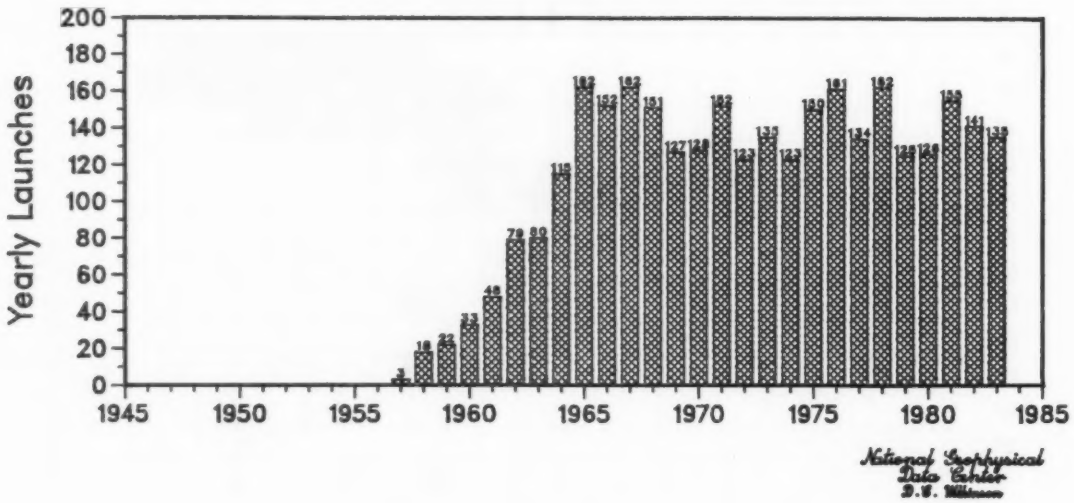
Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR ACTIVITY AND SPACE LAUNCHES

SMOOTHED MONTHLY SUNSPOT NUMBERS



SPACE LAUNCHES WORLDWIDE



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ACTIVE REGIONS

CARRINGTON ROTATION 1729
(November 25, to December 22, 1982)

Region No.	Coordinates Lat.	Long.	Imp	Age at CMP (Days)	Spotless Region	Region No. In Rotation 1728	Activity at West Limb
1	19°N	357	1	>6	x	60*	dispersed
2	10°N	355	1	>6	x		decreasing
3	5°N	349	1	>6	x		dispersed
4	23°S	347	2	>6			decreasing
5	14°N	343	1	>6	x		decreasing
6	22°N	341	1	>6	x		dispersed
7	27°S	341	2	>6			decreasing
8	12°S	306	1	>6	x	7	dispersed
9	14°S	284	3	>6			decreasing
10	21°S	277	1	>6	x	9-10	dispersed
11	10°S	266	4	>6			decreasing
12	22°S	265	1	>6	x		dispersed
13	13°N	258	3	+1			decreasing
14	10°N	248	1	-4	x		(?)
15	25°S	242	3	-1			decreasing
16	10°S	238	2	0			decreasing
17	10°N	220	3	>6			decreasing
18	13°N	208	1	>6	x	19	decreasing
19	6°N	206	5	+6			decreasing
20	7°S	172	1	>6	x		dispersed
21	6°S	153	1	>6	x		disappeared
22	9°S	153	2	>6			decreasing
23	16°S	152	1	>6	x	25	dispersed
24	11°S	143	2	>6		31	decreasing
25	6°S	136	2	>6		30	decreasing
26	16°S	131	6	>6			decreasing
27	10°N	116	5	>6		32	decreasing
28	10°S	109	1	>6	x		dispersed
29	8°S	101	3	>6			decreasing
30	16°N	93	1	+4	x		decreasing
31	10°S	83	6	>6		37	decreasing
32	7°N	78	1	>6	x	40	dispersed
33	19°S	77	1	>6	x		dispersed
34	15°N	75	2	-4			decreasing
35	5°N	49	1	-2	x		disappeared
36	5°S	39	2	-1			decreasing
37	5°S	20	1	>6	x	44	dispersed
38	9°N	18	1	>6	x	46	dispersed
39	11°S	14	1	>6	x	44	dispersed
40	18°S	2	2	+1			stable
41	6°N	0	1	0	x		stable

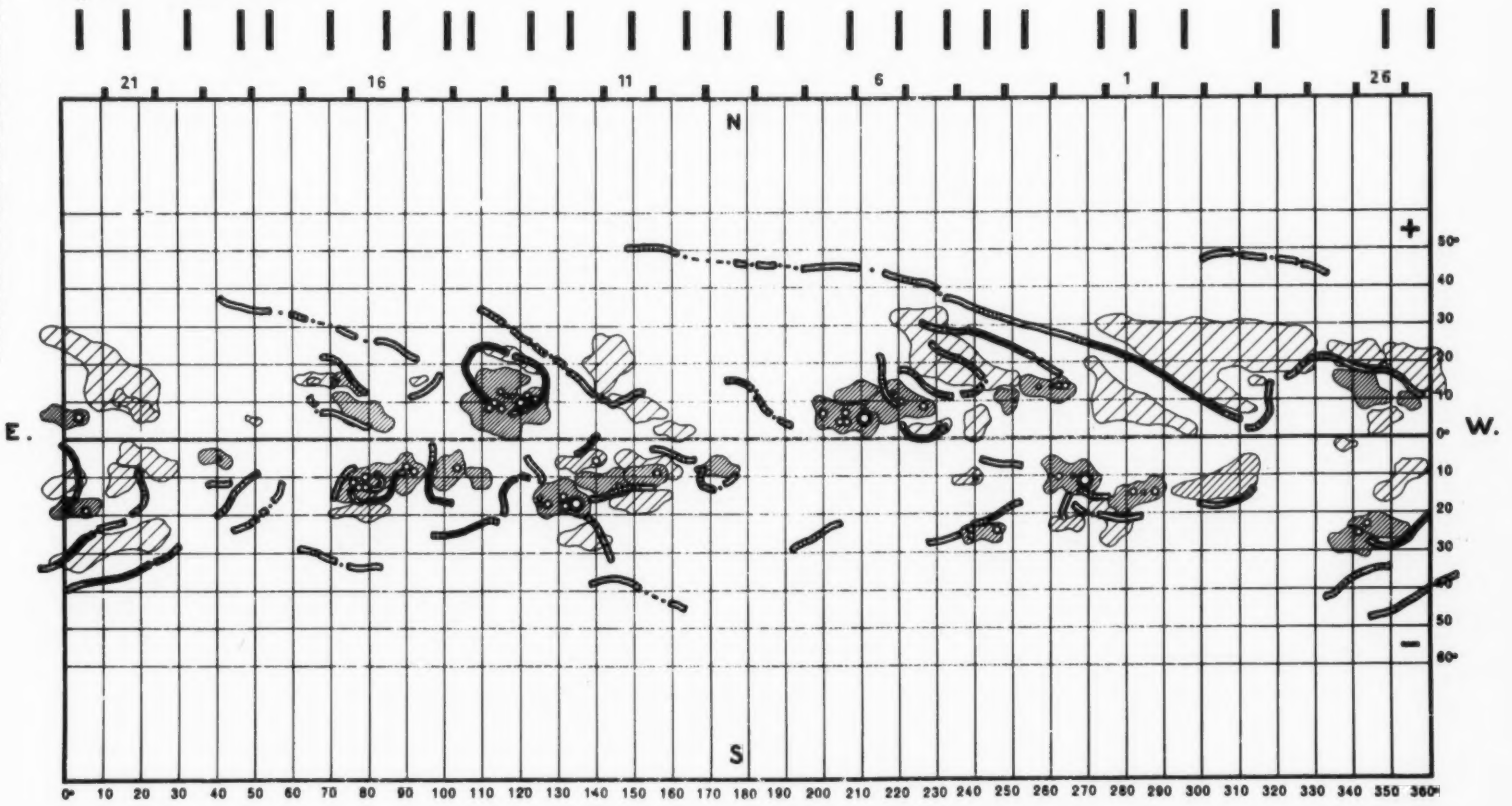
*Return of Region No. 60 in Rotation 1727.

SYNOPTIC SOLAR MAP

CARRINGTON ROTATION 1729

NOVEMBER 25 - DECEMBER 22, 1982

MEUDON OBSERVATORY



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